

UNCLASSIFIED

AD 402 910

*Reproduced
by the*

DEFENSE DOCUMENTATION CENTER

FOR

SCIENTIFIC AND TECHNICAL INFORMATION

CAMERON STATION, ALEXANDRIA, VIRGINIA



UNCLASSIFIED

NOTICE: When government or other drawings, specifications or other data are used for any purpose other than in connection with a definitely related government procurement operation, the U. S. Government thereby incurs no responsibility, nor any obligation whatsoever; and the fact that the Government may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use or sell any patented invention that may in any way be related thereto.

63-33

NRL Report 5'

CAT... 402910

BIBLIOGRAPHY OF UNCLASSIFIED NRL FORMAL REPORTS NUMBERS 1000 TO 5700

July 1962



U. S. NAVAL RESEARCH LABORATORY
Washington, D.C.

PREFACE

This Bibliography is divided into three sections. Section 1 lists numerically only the Unclassified NRL formal reports 1000 to 5700 giving the number and publication date at the left of the column and the title and authors at the right, below is the Office of Technical Services' PB number and price. If a microfilm or photostat price is quoted, the item may be purchased from Chief, Photo Duplication Service, Publication Board Project, Library of Congress, Washington 25, D.C.; check made payable to Chief, Photo Duplication Service. If mimeograph price is quoted the item may be purchased from the Office of Technical Services, Department of Commerce, Washington 25, D.C.; check made payable to Treasurer of the United States.

Section 2 is an alphabetical author index and Section 3 is an alphabetical listing of series titles. A subject index is not contemplated.

Copies available at OTS \$2.75

SECTION 1
NUMERICAL INDEX

NUMERICAL INDEX

- H-1000 Study of the Behavior of Spectral Lines of Sodium in the Combustion of Fuel Oils. L. H. Dawson. PB120642, Mi\$2.40, Ph\$3.30.
- R-1001 Examination and Test of RCA Victor Co. Model CXG H. F. Direction Finder, Serial No. 2. S. A. Greenleaf. PB122729, Mi\$2.70, Ph\$4.80.
- R-1002 Test of TBA-1A Transmitter Including Comparative Tests of TBA Transmitter. O. C. Dresser. PB122728, Mi\$5.90, Ph\$21.30.
- H-1003 The Polarization of Light at Sea. E. O. Hulburt. 11/33 PB122725, Mi\$2.40, Ph\$3.30.
- H-1004 Secret Recognition System for Use at Night on Ships. E. O. Hulburt. 11/33
- P-1005 Enclosed Submarine Storage Battery Cell Problem. H. D. Crockford. PB122727, Mi\$4.80, Ph\$13.80.
- R-1006 Test of the Preliminary Model LD-1 Combined Heterodyne Frequency Meter and Crystal Controlled Calibrator Range 100-5000 Kcs for a-c Operation. R. B. Owens.
- R-1007 Test of "Agastat" Time Delay Relay and Comparison with Type "PQ" Time Delay Relay. R. B. Meyer, O. C. Dresser. PB122726, Mi\$2.40, Ph\$3.30.
- R-1008 Tests of the Simon Direction and Distance Finder. M. H. Schrenk. 12/33
- R-1009 Tests of Model RO-2 Receiver, Serial #7. S. A. Greenleaf. 12/33 PB122724, Mi\$2.40, Ph\$3.30.
- R-1010 Test of Crystal Holders, submitted by Radio Research Co. and Investigation of TBA Transmitter Crystal Circuit. O. C. Dresser. PB123760, Mi\$2.40, Ph\$3.30.
- R-1011 Test of RCA-Victor General Purpose Receiver (RCA Victor Drawing 9813295, Range 1380-29,500 Kc). S. A. Greenleaf.
- P-1012 Cooperative Fuel Testing, A. P. Borgstrom. 12/33 PB122723, Mi\$1.80, Ph\$1.80.
- R-1013 Tests of TAD High Frequency Attachment. O. C. Dresser. 12/33
- R-1014 Test to Determine Cause of Failure of Audio Transformers. J. J. MacGregor, M. H. Schrenk. 1/34
- H-1015 Supplement to Report on Photoelastic Test of Bureau of Construction and Repair Weld Models 54a, 54b, 54c, and 56g. R. B. Carleton. PB122722, Mi\$2.40, Ph\$3.30.
- M-1016 Report on Studies of European Molding Sands. R. A. Gezellus. 1/34 PB122712, Mi\$2.70, Ph\$4.80.
- H-1017 Signalling and Detection with Ultra-Violet and Infra-Red Radiation. E. O. Hulburt. PB120466, Mi\$2.40, Ph\$3.30.
- R-1018 Tests to Determine Cause of Failure of Voltmeters Used in Model GI Receivers. J. J. MacGregor, M. H. Schrenk. 1/34
- P-1019 The Carbon and Hydrogen Content of the Fuel Oils in Storage at the Naval Research Laboratory. P. Borgstrom, R. D. Norton. PB122717, Mi\$1.80, Ph\$1.80.
- R-1020 Test of Precision Thermometer, and Instrument Co. Thermostats. R. B. Owens. 1/34
- P-1021 Progress on Anti-Fouling Coatings. W. Rosett. 1/34
- H-1022 Photography with Infra-Red Plates. E. O. Hulburt. 2/34
- P-1023 Submarine Battery Ventilation System, "Open" Type. E. G. Lunn. 2/34 PB122716, Mi\$2.40, Ph\$3.30.
- R-1024 Test of RCA-Victor Co. Test Oscillator Model TMV-97-A, Serial #785, Range 150-15000 Kc. S. A. Greenleaf. 2/34
- R-1025 Test of "Agastat" Time Delay Relay. R. B. Meyer, R. A. Gordon. 2/34 PB122719, Mi\$2.40, Ph\$3.30.
- M-1026 Solidification Studies (Steel Castings Research). C. W. Briggs, R. A. Gezellus. PB120649, Mi\$2.40, Ph\$3.30.
- R-1027 Test of Models RAA and RAB Receiving Equipments (Audio System). J. H. Gough. 2/34 PB120650, Mi\$3.00, Ph\$6.30.
- R-1028 Test of Models RAA and RAB Receiving Equipments (RF and IF Amplifier and Detector Circuits of the Model RAA). E. N. Dingley, Jr. PB120651, Mi\$3.90, Ph\$10.80.
- M-1029 Studies of Internal Friction and Vibration Fatigue. R. H. Canfield. 2/34 PB120635, Mi\$2.70, Ph\$4.80.
- R-1030 Tests of Model RAA and RAB Receiving Equipment (RF and IF Amplifier and Detector Circuits of the Model RAB). W. B. Burgess. PB120636, Mi\$3.30, Ph\$7.80.
- P-1031 Cooperative Fuel Testing, B. P. Borgstrom. 2/34
- H-1032 Report of the Radio Section of the 1932-1933 American Polar Year Expedition. H. B. Maris. 3/34 PB120637, Mi\$3.00, Ph\$6.30.
- P-1033 Water Repellant Coatings-Tests of Water Repellant Materials for Coating the Interior of Submarine Main Battery Ventilation Ducts. E. G. Lunn.
- R-1034 Detector Characteristics. E. N. Dingley, Jr. 3/34 PB120638, Mi\$2.40, Ph\$3.30.
- R-1035 Pre-Selector Circuits. E. N. Dingley, Jr. 3/34
- H-1036 The Problem of Visibility. E. O. Hulburt. 3/34
- R-1037 Key Clicks. E. N. Dingley, Jr. 3/34
- R-1038 Test of Model RG-3 Radio Receiving Equipment - Range 1,000 to 20,000 Kc. S. A. Greenleaf.
- R-1039 Test of Frequency Control Device. L. C. Young. 3/34 PB120639, Mi\$2.70, Ph\$4.80.
- R-1040 Tests of Model TBF Transmitting Equipment, Serial Nos. 32, 34, 35. R. B. Meyer, O. C. Dresser. 3/34

- R-1041 Tests of the Resubmitted Preliminary Model LD-1 Combined Heterodyne Frequency Meter and Crystal Controlled Calibrator, Range 100-5000 Kcs for a-c Operation. R. B. Owens. PB120640, Mi\$1.80, Ph\$1.80.
- R-1042 Investigation of Hum in Model RAB Receiver, J. H. Gough. 4/34
- R-1043 Test of Model TBF- A Transmitting Equipment. R. B. Meyer. 4/34
- A-1044 Tests of NEA-1 Alternator. U J. J. MacGregor, M. H. Schrenk. 4/34
- A-1045 Tests of Type CHS 74015 Crystal Frequency Indicator. 4/34 M. H. Schrenk, H. F. Hastings.
- A-1046 Tests of Type RR-150 Aircraft Frequency Indicator. 4/34 M. H. Schrenk. PB120641, Mi\$1.80, Ph\$1.80.
- M-1047 The Pickling of Steel Castings. U C. W. Briggs, R. A. Gezelus. 4/34 PB120632, Mi\$3.90, Ph\$10.80.
- R-1048 Results of Antenna Measurements Using Model OA Equipment and Substitution Method. R. S. Baldwin. PB120633, Mi\$2.40, Ph\$3.30.
- P-1049 Cooperative Fuel Testing. C. U P. Borgstrom. 4/34 PB120634, Mi\$1.80, Ph\$1.80.
- R-1050 Tests of the Experimental Crocker-Wheeler Alternator and Modified Model GI Transmitter. M. H. Schrenk. 5/34
- R-1051 Tests of Model TAZ-1 Transmitting Equipment, Serial No. 3. U R. B. Meyer, O. C. Dresser. 5/34
- M-1052 Studies of Grid Alloys for Submarine Storage Batteries. U R. H. Canfield, H. E. Kaiser. 5/34 PB120484, Mi\$2.70, Ph\$4.80.
- R-1053 Test of the Hammarlund Comet "Pro" Receiver, Serial No. 7448, Range 1,200-20,000 Kcs. U S. A. Greenleaf. 5/34
- R-1054 Test of the Model TBG Transmitting Equipment. R. B. Meyer. U 5/34
- R-1055 Test of the Model TAV-2 Equipment, Section 1: Transmitter, Generator, Antenna, and Transportation Equipment. U C. H. Williams, R. B. Meyer. 5/34
- A-1056 Tests of Model "GO" Patrol Plane Transmitter Equipment. U M. H. Schrenk. 5/34 PB120482, Mi\$2.70, Ph\$4.80.
- R-1057 Test of Wire-Wound Resistors of Cement and Varnished Types. U R. B. Owens. 6/34
- R-1058 Test of Receiver Unit Only on the Model TAV-2 Equipment, Section 2: Balance of Eq. Covered in Report R-1055. S. A. Greenleaf. U 6/34
- R-1059 Test of Preliminary Model LD-2 Combined Heterodyne Frequency Meter and Crystal Controlled Calibrator. R. B. Owens. U 6/34
- H-1060 Signaling and Detection with Ultra-Violet and Infra-Red Radiation, Supplement to H-1017. U R. Gunn. 6/34 PB120483, Mi\$1.80, Ph\$1.80.
- P-1061 Storage Batteries WLH-45 and WLH-29, Characteristics of, at 1280 Specific Gravity. E. G. Lunn. U 6/34 PB120477, Mi\$2.40, Ph\$3.30.
- R-1062 Test of Weston Test Oscillator Model 694, Serial 114, Range 113 to 3120 Kc. S. A. Greenleaf. U 6/34
- R-1063 Test of Models RAA and RAB Receiving Equipments (Audio System) (Addenda to Report R-1027). J. H. Gough. U 7/34
- R-1064 Fire Extinguishers; Preliminary Study of Foam Fire Extinguishers for Flight Decks of Aircraft Carriers. E. G. Lunn. U 7/34
- R-1065 Effects of High Frequency Electric Fields of High Field Intensities Upon Radio Frequency Insulating Materials. J. D. Wallace, A. H. Moore, Jr. U 7/34 PB120482, Mi\$2.70, Ph\$4.80.
- R-1066 Test of Head Telephone Receivers. U R. S. Baldwin. 8/34
- A-1067 Tests of Preliminary Models GF-1 and RU-3, Aircraft Radio Equipment. M. H. Schrenk. U 9/34
- R-1068 Test of Model TAJ-4 Transmitting Equipment. J. C. Link, R. B. Meyer. U 9/34
- R-1069 Test of Model TBF-1 Transmitting Equipment. R. B. Meyer, O. C. Dresser. U 9/34
- B-1070 Test of Low Pressure Alarm Contact Maker for Circulating Oil System, submitted by Butte Electric and Mfg. Co. U W. B. Roberts. 9/34
- P-1071 Report on the Thermodynamics of the Lead-Acid Storage Cell. U H. S. Harned, W. J. Hamer. 9/34 PB116538, Mi\$3.00, Ph\$9.00.
- B-1072 Test of Clear Bakelite. U W. B. Roberts. 9/34
- B-1073 Test of Relay for Two Filament Running Light Lamps. U W. B. Roberts. 9/34
- R-1074 Test of Thermostats, submitted by H. B. Instrument Co. U R. B. Owens. 9/34 PB120478, Mi\$1.80, Ph\$1.80.
- M-1075 Studies of Solidification and Contraction in Steel Castings. II. U Free and Hindered Contraction of Cast Carbon Steel. C. W. Briggs, R. A. Gezelus. 9/34 PB120479, Mi\$2.70, Ph\$4.80.
- A-1076 Test of Kearfott Aircraft Direction Finder and Homing Device. U H. F. Hastings. 10/34
- A-1077 Tests of Type NES-2 Radio Homing Device. M. H. Schrenk. U 10/34 PB120480, Mi\$2.40, Ph\$3.30.
- S-1078 Test of Model QB Underwater Sound Equipment of the USS CUTTLEFISH. H. C. Hayes. U 10/34
- P-1079 Recognition Signals; Visual Signals for Submerged Submarines. U E. G. Lunn. 10/34
- P-1080 Submarine Air Purification #3. U P. Borgstrom. 10/34 PB120467, Mi\$2.40, Ph\$3.30.
- S-1081 Test of NM Equipment of the USS FARRAGUT. H. C. Hayes. U 10/34
- B-1082 Test of Instantaneous Type Shaft Revolution Indicator System, submitted by Pitometer Log. Corp. U J. R. Coomes, J. S. Bryant, W. B. Roberts. 10/34
- R-1083 Test of Weston Model 301 Volume Indicator. S. A. Greenleaf. U 10/34 PB120481, Mi\$1.80, Ph\$1.80.
- S-1084 Test of the QC Equipment of the USS FARRAGUT. H. C. Hayes. U 10/34
- R-1085 Test of Mica and Foil Paper Capacitors. R. B. Owens. U 10/34
- B-1086 Test of Lubricating Oil Low Pressure Alarm Contact Maker, submitted by Clark Cooper Company. W. B. Roberts. U 10/34
- R-1087 Test of Model TBK Transmitting Equipment (Preliminary Model). U R. B. Meyer, O. C. Dresser. 10/34 PB122748, Mi\$4.50, Ph\$12.30.
- R-1088 Tests of Cement-Coated, Wire-Wound Resistors, submitted by International Resistance Co. U W. E. Bower. 10/34

Numerical Index

R-1089 - R-1134

- R-1089 Tests of the Model TAJ-5 Transmitting Equipment (Preliminary Model). R. B. Meyer, J. C. Link.
U
10/34
- S-1090 Tests of the RCA-Victor NM-3 and QC-3 Sound Equipment.
U
11/34 E. B. Stephenson.
- R-1091 Tests of Stackpole, S. S. White and Other Resistor Units.
U
11/34 R. C. Guthrie, Jr.
- B-1092 Test on Controller and Pulsators for Truck and Screened Speed Lights, mfd. by Navy Yard, Portsmouth, N. H. J. S. Bryant, W. B. Roberts.
- R-1093 Test of the Model RAG Receiving Equipment. R. H. Herrick, S. A. Greenleaf.
U
11/34 PB120489, Mi\$7.20, Ph\$22.80
- R-1094 Test of the Models TBA-1A Transmitting Equipment.
U
11/34 O. C. Dresser.
- B-1095 Tests of Bi-Metallic Thermostats, submitted by Walter Kidde and Co.
U
11/34 W. B. Roberts.
- B-1096 Telephone Extension Relay, submitted by Automatic Electric Co.
U
11/34 J. S. Bryant, W. B. Roberts.
- H-1097 Sky Camouflage of Naval Airplanes.
U
11/34 C. E. Bittinger, E. O. Hulburt.
- R-1098 Test of the Class IA and IIA Receiving Equipments. J. H. Gough.
U
11/34 PB123759, Mi\$9.90, Ph\$34.80.
- R-1099 Test on Mercury-in-Glass Thermostats. W. E. Bower.
U
12/34
- P-1100 Submarine Storage Batteries Relation of Current and Voltage During the Gassing Phase of Charge.
U
11/34 E. G. Lunn.
PB120486, Mi\$1.80, Ph\$1.80.
- B-1101 Metal, Vacuum Type Relay, submitted by General Electric Co.
U
12/34 J. S. Bryant, W. B. Roberts.
PB120497, Mi\$1.80, Ph\$1.80.
- R-1102 Test of Model QA Underwater Sound Equipment, submitted by Audio Research, Inc. R. H. Herrick, S. A. Greenleaf.
U
12/34 PB120498, Mi\$3.80, Ph\$9.30.
- A-1103 Investigation of Model MJ Aircraft Radio Receiver. H. F. Hastings, J. J. MacGregor.
U
12/34 PB120499, Mi\$3.30, Ph\$7.80.
- A-1104 Tests of Model GM Transmitting Equipment. G. C. Schleiter.
U
12/34 PB120500, Mi\$4.50, Ph\$12.30.
- A-1105 Test of Experimental Radio Direction Finder, submitted by Pioneer Instrument Co. G. C. Schleiter, M. H. Schrenk.
U
12/34 PB120501, Mi\$3.00, Ph\$6.30.
- B-1106 Constant Frequency Control Unit for Instantaneous Shaft Revolution System, manufactured and submitted by Pitometer Log Corp. J. R. Coomes, W. B. Roberts, J. S. Bryant.
U
12/34
- R-1107 Tests of the Simon Radio Direction and Distance Finder. W. J. Cahill, M. H. Schrenk.
U
12/34
- M-1108 Solidification Studies on Cast Steel, II. C. W. Briggs, R. A. Gezelius.
U
1/35 PB120502, Mi\$2.40, Ph\$3.30.
- B-1109 Tests on Thermostats - Mercurial Type, manufactured and submitted by Moeller Instrument Co.
U
1/35 W. B. Roberts.
- B-1110 Tests on Thermostats - Mercurial Type, manufactured and submitted by H. B. Instrument Co.
U
1/35 W. B. Roberts.
- 1111 Development of Micro-Ray Radio Apparatus for Use in Aircraft Altimeter Equipment.
U
1/35 W. J. Cahill.
- R-1112 Tests of Mercury-in-Glass Thermostats in Circuit Employed in Model LD-2 Equipment.
U
1/35 W. E. Bower.
PB132392, Mi\$2.40, Ph\$3.30.
- P-1113 Heat Balance Studies on Submarine Storage Cells. H. D. Crockford.
U
1/35 PB120488, Mi\$4.50, Ph\$12.30.
- B-1114 Temperature Indicator for Submarine Engines, mfd. by Weston Electric Corp. and submitted by Winton Engine Corp.
U
1/35 W. B. Roberts.
- R-1115 Characteristic Impedance and Attenuation of Transmission Line at Frequencies of 30 and 40 Mc. L. C. Young, R. A. Gordon.
U
1/35 PB120485, Mi\$1.80, Ph\$1.80.
- R-1116 Test of Model TBL Transmitting Equipment. O. C. Dresser, R. B. Meyer.
U
1/35
- R-1117 Loss Factor and High Frequency Flash-Over of Phenolic Insulating Materials. J. D. Wallace, A. H. Moore.
U
1/35 PB120486, Mi\$3.60, Ph\$9.30.
- B-1118 Instantaneous Type Shaft Revolution System, submitted by Electric Tachometer Corp. J. R. Coomes, J. S. Bryant, W. B. Roberts.
U
1/35
- P-1119 Conversion of Viscosity Determinations Using the Saybolt Viscosimeter with Universal, Furol, and Asphalt Tubes. P. Borgstrom.
U
1/35 PB120487, Mi\$2.40, Ph\$3.30.
- R-1120 Tests of Weston Model Replacement Voltmeter for Models RAA and RAB Receivers. R. B. Owens.
U
1/35 PB122794, Mi\$1.80, Ph\$1.80.
- M-1121 Studies of Grid Alloys for Submarine Storage Batteries, II.
U
1/35 R. H. Canfield, H. F. Kaiser.
- R-1122 Electrical Characteristics and Performance of Rectifier Unit Type CAY-20018 of the Model TBK Radio Transmitter.
U
2/35 J. T. Fetsch.
- B-1123 Test of 12" Single Stroke, 115 V., AC, 60 Cycle Bell, submitted by C. Cory Corp. J. S. Bryant, W. B. Roberts.
U
2/35
- B-1124 Test of Relays for Operation of Pilot Indicator Lamps in Truck and Screened Speed Light Controllers, submitted by Automatic Electric Co. W. B. Roberts.
U
2/35
- B-1125 Test of Horns, Type H, submitted by Federal Electric Co.
U
2/35 J. S. Bryant, W. B. Roberts.
- P-1126 Submarine Storage Batteries; Emergency Analysis for Chlorine Content of Electrolyte.
U
2/35 L. Singer, E. G. Lunn.
- P-1127 Reproducibility of Viscosity Determinations at 77°F.
U
3/35 W. E. Whybrew, P. Borgstrom.
PB122795, Mi\$4.50, Ph\$12.30.
- R-1128 Repair of Model OA Antenna Measuring Equipment Type 4360, Serial #1, assigned to NYD, Pearl Harbor. R. S. Baldwin.
U
3/35 PB122657, Mi\$3.00, Ph\$6.30.
- B-1129 Test of Annunciator Equipment and Buzzer, submitted by Chas. Cory Corp. W. B. Roberts.
U
3/35
- R-1130 Test of Model TAQ-4 Transmitting Equipment. J. C. Link.
U
3/35 R. B. Meyer.
- R-1131 Tests of Enamel Coated Wire Wound Resistors. W. E. Bower.
U
3/35
- R-1132 Tests of Model LK Frequency Drift Indicator (Preliminary Model). J. C. Link, R. B. Meyer.
U
3/35
- B-1133 Test on Telegraph Key and Sounder Equipment, submitted by J. H. Bunnell Co. W. B. Roberts.
U
3/35
- R-1134 Test of Models DO, DO-1, DO-2, and DO-3 Radio Direction Finder Equipment. J. H. Gough.
U
3/35 PB122796, Mi\$9.30, Ph\$31.80.

R-1135 - R-1180

Naval Research Laboratory

- R-1135 Tests of Anti-Click Keying Unit.
U L. C. Young, R. B. Meyer.
3/35 PB122797, Mi\$2.40, Ph\$3.30.
- P-1136 Storage Batteries; Comparison
U of Capacities of WLH-29, WLH-
3/35 45, and German Tudor Type 20-
POR-820 Submarine Storage Cells.
E. G. Lunn.
PB122798, Mi\$2.40, Ph\$3.30.
- B-1137 Test of 6", AC, 60-Cycle Vibrating
U Bell, submitted by Chas. Cory
3/35 Corp. J. S. Bryant, W. B. Roberts.
- R-1138 Test of Model LJ Aircraft Crystal
U Frequency Indicator CHS-
3/35 74015, Serial #11
H. F. Hastings.
- R-1139 Test of Weston Decibel Meters,
U Model 301. S. A. Greenleaf.
3/35 PB122799, Mi\$2.40, Ph\$3.30.
- R-1140 Test of Class IA and IIA Receiving
U Equipments, modified as of Feb. 1,
3/35 1935. W. B. Burgess, J. H. Gough,
G. Lyle, S. A. Greenleaf.
PB122801, Mi\$7.20, Ph\$22.80.
- R-1141 Test of Loop Structure Assembly
U of the Model DQ Radio Direction
3/35 Finder Equipment. J. H. Gough,
G. A. Lyle.
PB109274, Mi\$1.75, Ph\$2.50.
- B-1142 Test on Incandescent Lamps, 6-8
U Volts, G-4-; Clear Bulb
4/35 (Mazda 55), submitted by General
Electric Co. J. S. Bryant,
W. B. Roberts.
- R-1143 Test of Modified Type CD-48432
U Capacitors. J. J. MacGregor.
4/35
- M-1144 Development of Exothermic
U Torpedo. R. H. Canfield.
4/35
- P-1145 Submarine Storage Batteries;
U Methods of Increasing the Specific
4/35 Gravity of the Electrolyte to
1.280. E. G. Lunn.
- R-1146 Static Locating System.
U H. B. Maris.
4/35 PB122800, Mi\$2.40, Ph\$3.30.
- B-1147 Test of Navy Type I Horns, sub-
U mitted by Delco-Remy Corp.
4/35 J. S. Bryant, W. B. Roberts.
- B-1148 Test of Instrument Lamps, Types
U VG-2 and VG-2A, submitted by
4/35 G. E. Vapor Lamp Co.
J. S. Bryant, W. B. Roberts.
- R-1149 Present Day Technique for Radio
U Transmission and Reception in
4/35 the Micro-Ray Frequency Band
(300-3000 Mcs.) with Suggested
Applications for Naval Purposes.
W. J. Cahill.
- P-1150 Atmospheric Distillation of the
U "A" Series of Fuel Oils and the
4/35 Analysis of the Fractions.
R. D. Norton, P. Borgstrom.
PB122805, Mi\$2.70, Ph\$4.80.
- R-1151 Test of Submarine Loop Antenna
U Cable. R. B. Owens.
4/35 PB122803, Mi\$2.40, Ph\$3.30.
- R-1152 Test of Capacitors, submitted by
U John E. Fast & Co. R. B. Owens.
4/35
- R-1153 Test of Formica Insulation.
U R. B. Owens.
5/35 PB122804, Mi\$1.80, Ph\$1.80.
- R-1154 Vibration Test of Type 38064
U Vacuum Tubes. J. T. Fetch.
6/35
- R-1155 Test of Revised Model QA Under-
U water Sound Equipment, sub-
5/35 mitted by Audio Research, Inc.
J. H. Gough, S. A. Greenleaf.
PB122802, Mi\$3.60, Ph\$9.30.
- B-1156 Test of Double Shaft Revolution
U Indicator, submitted by Pitom-
5/35 eter Log Corp. J. S. Bryant,
W. B. Roberts.
- R-1157 Life Tests on Type 864 Triodes.
U C. H. Williams, J. T. Fetsch.
5/35 PH122793, Mi\$3.00, Ph\$9.30.
- B-1158 Test on General Alarm Contact
U Maker, submitted by Chas. Cory
5/35 Corp. J. S. Bryant, W. B. Roberts.
- H-1159 A Photoelastic Investigation of
U the Stress Concentrations in
6/35 Longitudinal Sections of Corru-
gated Pipe, for the Naval Experi-
ment Station, Annapolis.
J. A. Plugge.
- P-1160 Emulsion Formation of the "A"
U Series of Fuel Oils. O. I. Lewis,
6/35 P. Borgstrom.
PB122865, Mi\$3.00, Ph\$6.30.
- R-1161 Test of Model LJ-1 Aircraft Crystal
U Frequency Indicators, Serial Nos.
6/35 S-4 and S-5. H. E. Hastings.
- R-1162 Loop Circuit "Q" Measurements
U and Defects of Loop Assembly
5/35 Construction of Models DO, DO-1,
DO-2, DO-3 Radio D/F Equipment.
J. H. Gough.
- R-1163 The Ionosphere, Skip Distances
U of Radio Waves and the Propaga-
6/35 tion of Microwaves. E. O. Hulburt.
- R-1164 Test of General Electric Recog-
U nition Signal System.
5/35 R. M. Page, Jr.
- R-1165 Electrical Performance of Multi-
U Electrode Mercury Vapor Recti-
5/35 fier Tube in Double Three Phase
Circuit Type W-224. J. T. Fetsch.
- B-1166 Test on Navy Type I Horn, sub-
U mitted by Kellogg Switchboard &
6/35 Supply Co. W. B. Roberts.
- R-1167 Test of Head Telephone Receivers.
U R. S. Baldwin.
6/35
- B-1168 Test on Electrical Solenoid
U Valves and Air Horn, submitted
6/35 by Clark Cooper Co., for Sub-
marines SS176 and SS178.
W. B. Roberts, J. R. Coomes.
- R-1169 Test of Special Western Electric
U Light Weight Head Telephone
6/35 Receivers. R. S. Baldwin.
- B-1170 Test of Thermostats, Mercurial
U Type, submitted by the H. B.
6/35 Instrument Co. W. B. Roberts.
- B-1171 Test on Wind Intensity and Wind
U Direction Indicator System, sub-
7/35 mitted by Julian P. Friez and
Sons, Inc. J. R. Coomes,
J. S. Bryant, W. B. Roberts.
PB122866, Mi\$2.40, Ph\$3.30.
- R-1172 Test of Weston Model 506 Tropi-
U cally Treated Voltmeter Multi-
7/35 pliers. R. B. Guthrie.
- O-1173 Light Armor Investigation; Survey
U of Literature. D. L. Hay.
7/35 PB122867, Mi\$2.40, Ph\$3.30.
- B-1174 Test of Bells and Buzzers, sub-
U mitted by Charles J. Henschel
7/35 and Co., Inc. J. R. Coomes,
J. S. Bryant, W. B. Roberts.
PB122870, Mi\$2.70, Ph\$4.80.
- R-1175 Test of Production Model GF-1
U Equipment. H. R. Miller.
7/35
- R-1176 Tests of Capacitors, submitted by
U John E. Fast & Co. R. B. Owens.
7/35
- R-1177 Routine Test of Thermostats,
U submitted by Precision Thermom-
7/35 eter and Instrument Co.
R. B. Owens.
- R-1178 Retest of Preliminary Model of
U Class IV Radio Receiving Equip-
7/35 ment Consisting of One RAG-1
Receiving Equipment, One RAH-1
Receiving Equipment and One
Type CHS-73067 Control Unit.
J. H. Gough, S. A. Greenleaf,
G. A. Lyle.
PB122868, Mi\$3.90, Ph\$10.80.
- R-1179 Electrical Performance and
U Characteristics of Cathanode
7/35 Mercury Vapor Triodes.
J. T. Fetsch.
- R-1180 Tests of Model AVR-6 Aircraft
U Receiver Equipment.
7/35 G. C. Schleiter.
PB122862, Mi\$4.80, Ph\$13.80.

Numerical Index

B-1181 - B-1226

- B-1181 Test of Lubricating Oil Low Pressure Alarm Contact Maker, submitted by Clark Cooper Co. W. B. Roberts.
8/35
- M-1182 Studies of Solidification and Contraction in Steel Castings: The Rate of Skin Formation. C. W. Briggs, R. A. Gezelius. PB122663, Mi\$3.00, Ph\$6.30.
8/35
- R-1183 Test of Thermostats, submitted by the Taylor Instrument Co. R. B. Owens.
8/35
- B-1184 Switch, Door Operated, Type IV, infd. by Portsmouth NYd. J. S. Bryant, W. B. Roberts.
8/35
- R-1185 Model GO Production Set, Serial #33, submitted by Hygrade Sylvania Corp. H. R. Miller. PB120476, Mi\$3.30, Ph\$7.80.
8/35
- R-1186 Test of Model TBN-2 Radio Transmitting Equipment, submitted by Westinghouse Electric and Mfg. Co. R. B. Meyer. PB122664, Mi\$8.70, Ph\$30.30.
8/35
- R-1187 Measurement of Characteristic Impedance and Attenuation of Twisted Pair Transmission Lines. R. A. Gordon. PB122654, Mi\$1.80, Ph\$1.80.
8/35
- M-1188 Investigation of Electrolysis of Water. I. P. Hausmeister.
8/35
- P-1189 Submarine Storage Batteries: Stratification of Electrolyte. E. G. Lunn.
8/35
- B-1190 Test of Fire Alarm Thermostat, submitted by Julian P. Friez & Sons. W. B. Roberts.
9/35
- R-1191 Test of Ceramic (Porcelain) Insulating Materials, submitted by Porcelain Products, Inc. R. B. Owens.
9/35
- R-1192 Test of Thermometers, submitted by Taylor Instrument Co. R. B. Owens.
9/35
- B-1193 Test of Incandescent Lamps, 6-8 Volts, ICP, G-3½ Bulb "Mazda 51," submitted by G. E. Co. W. B. Roberts.
9/35
- P-1194 Fire Extinguishers; Foam Fire Extinguishing Equipment for Naval Vessels; Test of Foam Generator. E. G. Lunn.
9/35
- P-1195 Heat Balance Studies on Submarine Storage Cells - The Gassing Voltage-Gravity-Temperature Relationships in Lead-Acid Cells. H. D. Crockford, W. G. Sink.
9/35
- H-1196 Low Visibility Camouflage of Ships. C. Bittinger, E. O. Hulbert.
9/35
- R-1197 Test of Commercial Type 56 Vacuum Tubes for Use as Oscillators in Models RAA and RAB Series Receiving Equipment. G. A. Lyle, K. M. Soukaras.
9/35
- B-1198 Test on Wind Velocity System, submitted by Submarine Signal Co. W. B. Roberts, J. R. Coomes, J. S. Bryant.
9/35
- S-1199 Sound Analysis of USS S-20. E. B. Stephenson.
9/35
- R-1200 Test of Preliminary Model of Model LN Receiver Alignment Oscillator, Consisting of One Radio Frequency Oscillator, Type CAG 60004 and One Power Unit Type CAG 20041. S. A. Greenleaf.
10/35
- R-1201 Investigation of Means to Reduce or Overcome Effects of Static. P. M. Haffcke. PB122655, Mi\$2.70, Ph\$4.80.
10/35
- R-1202 Test of U.S. Coast Guard Type CGR-31 Intermediate Frequency Receiver. J. H. Gough.
10/35
- B-1203 Test of Propeller Shaft Revolution Indicator System, submitted by the Electric Tachometer Corp. J. R. Coomes, J. S. Bryant, W. B. Roberts.
10/35
- S-1204 Transmission of Sound in Sea Water; Absorption and Reflection Coefficients and Temperature Gradients. E. B. Stephenson. PB122656, Mi\$2.70, Ph\$4.80.
10/35
- R-1205 Test of Mycalex Insulating Material. R. B. Owens.
10/35
- B-1206 Test of Bells, submitted by Chas. J. Henschel & Co., Inc. J. S. Bryant, W. B. Roberts.
10/35
- B-1207 Test on Anemometer, Contacting Type, submitted by Julian P. Friez & Sons. W. B. Roberts. PB122792, Mi\$1.80, Ph\$1.80.
10/35
- C-1208 Diesel Oils in Storage at the Nava Research Laboratory. P. Borgstrom. PB120659, Mi\$2.70, Ph\$4.80.
10/35
- R-1209 Routine Test of Submarine Loop Antenna Cable, submitted by The American Steel and Wire Co. R. C. Guthrie.
10/35
- C-1210 The Specific Gravity-Temperature Relationships of the NRL and "A" Series of Fuel Oils. L. Singer, P. Borgstrom. PB120658, Mi\$3.00, Ph\$6.30.
11/35
- M-1211 Method of Determining Laminations in Steel Plates, I: The Relation of Mill Practice to Laminations in Steel Plates. R. H. Canfield. PB120657, Mi\$2.40, Ph\$3.30.
11/35
- B-1212 Test on Lubricating Oil Low Pressure Contact Maker, submitted by Detroit Lubricator Co. W. B. Roberts.
11/35
- R-1213 Test of Head Telephone Receivers, Type CW-49023. R. B. Owens, R. C. Guthrie.
11/35
- B-1214 Test of Gun and Torpedo Transformer, submitted by G. E. Co. W. B. Roberts.
11/35
- B-1215 Test of Sirens, Motor Operated, submitted by Clark Cooper Co. J. R. Coomes, J. S. Bryant, W. B. Roberts.
11/35
- P-1216 Submarine Propulsion Systems. E. G. Lunn. PB120468, Mi\$3.30, Ph\$7.80.
11/35
- R-1217 Test of Head Telephone Receivers, Type CW49003. R. B. Owens, R. C. Guthrie.
11/35
- B-1218 Test of Horns, Type A, submitted by Clark Cooper Co. J. S. Bryant, W. B. Roberts.
11/35
- H-1219 Ship Camouflage - Reduction of Visibility of Periscope Feather with Dye. E. O. Hulbert. PB120469, Mi\$2.70, Ph\$4.80.
11/35
- B-1220 Test of Siren, Motor-Operated, submitted by E. O. Bullard, Co. J. S. Bryant, W. B. Roberts.
11/35
- B-1221 Bells, Vibrating, 8" and 10", submitted by Chas. Cory Corp. J. S. Bryant, W. B. Roberts.
12/35
- R-1222 Test of Thermometers, Type CHB-40014. R. B. Owens.
12/35
- B-1223 Test of Lamps, Incandescent, Types T-51 and T-55, 6-8 Volts, submitted by Tung-Sol Lamp Co. W. B. Roberts.
12/35
- P-1224 Effect on Aviation Gasoline Containing Lead Tetraethyl and Ethylene Di-Bromide when Stored in Metal Containers with or without Water. J. O. Burton, P. Borgstrom.
12/35
- R-1225 Test of U.S. Coast Guard Type CGR-32 High Frequency Receiver. S. A. Greenleaf.
12/35
- B-1226 Test of Wind Velocity and Wind Direction System, submitted by Chas. J. Henschel & Co. J. R. Coomes, J. S. Bryant, W. B. Roberts. PB122653, Mi\$2.70, Ph\$4.80.
12/35

H-1227 - R-1273

Naval Research Laboratory

- H-1227 Photoelastic Investigation of Destroyer Deck Structure. U
12/35 H. B. Maris, J. A. Sanderson. PB120674, Mi\$2.70, Ph\$4.80.
- R-1228 Frequency Errors in Thermal Instruments. J. D. Wallace, A. H. Moore. U
1/36 PB122720, Mi\$3.30, Ph\$7.80.
- M-1229 Studies on Solidifications and Contraction in Steel Castings: Free and Hindered Contraction of Alloy Cast Steels. U
1/36 C. W. Briggs, R. A. Gezelius. PB122713, Mi\$3.00, Ph\$6.30.
- H-1230 Airplane Camouflage, Preliminary Report on Reduction of Visibility by Artificial Illumination. U
1/36 E. O. Hulburt.
- R-1231 Test of Head Telephone Receivers, submitted by The Brush Dev. Co. U
1/36 R. B. Owens.
- A-1232 Report on Atmospheric Electric Field Indicator. R. Gunn. U
1/36 PB122715, Mi\$1.80, Ph\$1.80.
- R-1233 Electrical Characteristics and Performance of G. E. Type FP-164 Time Delay Electronic Relay. K. M. Soukaras. U
1/36
- P-1234 Investigation of Dehumidifying Agents of Submarines, I. Characteristics of Various Drying Agents. J. O. Clayton. U
1/36
- P-1235 Test of Static Electricity Dissipation in Submarine Storage Battery Ventilation Ducts. E. G. Lunn. U
2/36
- P-1236 Literature Study of the Chemical Composition of Sea Water. U
2/36 G. O. Stone. PB122714, Mi\$3.60, Ph\$9.30.
- B-1237 Test of Propeller Shaft Revolution Indicator System, Instantaneous Type, submitted by Elec. Tachometer Co. J. R. Coomes, J. S. Bryant, W. B. Roberts. U
2/36 PB122713, Mi\$2.70, Ph\$4.80.
- R-1238 Report on Unsatisfactory Performance of Type 38266 Rectifier Tubes in the Model GI Equipment. U
2/36 M. H. Schrenk.
- H-1239 Camouflage of Naval Ships - Tests at Sea During Nov. and Dec. 1935. U
2/36 C. Bittinger. PB120470, Mi\$3.00, Ph\$6.30.
- P-1240 Methods of Destruction of Documentary Contents of Safes in Sunken Vessels. E. G. Lunn. U
2/36
- R-1241 Test of Heat Telephone Receivers, Type CTE49016. R. B. Owens, U
3/36 W. H. Fifer.
- B-1242 Test of Propeller Shaft Revolution Indicator System, Electrochronometric Type, submitted by Geo. Walker Co. J. R. Coomes, J. S. Bryant, W. B. Roberts. U
3/36
- P-1243 Heat Balance Studies on Submarine Storage Cells for Naval Research Laboratory. U
3/36 H. D. Crockford, E. G. Lunn.
- P-1244 Oxygen Sources for Submarine Air Purification, I. U
3/36 J. E. Ahlberg.
- R-1245 Test of Alsimag 35 and 196. U
3/36 R. B. Owens.
- B-1246 Test of Annunciator, mfd. by Portsmouth NYd. W. B. Roberts. U
3/36
- R-1247 Magicore Samples, submitted by Henry L. Crowley & Co. U
3/36 J. H. Gough, G. A. Lyle. PB122721, Mi\$3.00, Ph\$6.30.
- R-1248 Test of Foil Paper Capacitors, Type CPC-48205. R. B. Owens. U
3/36
- B-1249 Test of Lubricating Oil Low Pressure Alarm Contact Maker, submitted by Schutte Koerting Co. W. B. Roberts. U
3/36
- R-1250 Test of Models RAA and RAB Receiving Equipments. RF and IF Amplifier and Detector Circuits of Models RAA and RAB. U
3/36 W. B. Burgess, S. A. Greenleaf.
- H-1251 Photoelastic Investigation of Stress Concentration in Side Plating 10,000 Ton Cruiser. U
3/36 H. B. Maris, J. A. Sanderson. PB122697, Mi\$2.70, Ph\$4.80.
- R-1252 Test of Model GO Transformers, submitted by Hygrade Sylvania Corp. J. C. Link. U
3/36 PB122759, Mi\$2.40, Ph\$3.30.
- B-1253 Test of Bells, Vibrating, 4", 8", and 1 1/2", submitted by Portsmouth NYd. J. S. Bryant, W. B. Roberts. U
3/36
- P-1254 Submarine Storage Batteries: X-Ray Study of Sulfation. U
3/36 E. G. Lunn.
- R-1255 Investigation of Phototube Characteristics. U
3/36 K. M. Soukaras, G. P. Walker.
- B-1256 Test of Siren, Motor Operated, submitted by Federal Electric Co. J. S. Bryant, W. B. Roberts. U
3/36
- R-1257 Properties of Dielectric Materials at High Frequencies. U
3/36 J. D. Wallace. PB122760, Mi\$3.60, Ph\$9.30.
- M-1258 Research on the Weldability of Iron Alloys. W. H. Bruckner. U
4/36 PB122761, Mi\$3.30, Ph\$7.80.
- H-1259 Radio and the Sunspot Cycle. U
4/36 L. C. Young, E. O. Hulburt. PB122762, Mi\$2.40, Ph\$3.30.
- M-1260 Laminations in Plates - An Acoustical Method for Determination of. H. C. Hayes. U
4/36 PB122744, Mi\$2.40, Ph\$3.30.
- R-1261 Test of Weksler Thermal Devices. R. B. Owens. U
4/36
- B-1262 Test on Valve, Solenoid Operation for Air Horns, submitted by Clark Cooper Co. U
4/36 W. B. Roberts.
- R-1263 Test of Kearfott Direction Finder. J. C. Link. U
4/36 PB122745, Mi\$3.00, Ph\$6.30.
- M-1264 Fluidity of Cast Steel - Part I. U
4/36 C. W. Briggs, R. A. Gezelius, J. L. Darby, Jr. PB122746, Mi\$3.60, Ph\$9.30.
- B-1265 Shaft Revolution Indicator, submitted by Electric Tachometer Corp. W. B. Roberts. U
4/36 J. R. Coomes, J. S. Bryant.
- B-1266 Test on Transformers, Gun Firing, submitted by American Transformer Co. U
4/36 W. B. Roberts.
- P-1267 Submarine Storage Batteries; Charging Procedure for Wartime. U
4/36 E. G. Lunn. PB120471, Mi\$1.80, Ph\$1.80.
- R-1268 Test of First Production Sample of Models RAG-1, RAH-1 Receiving Equipment. J. H. Gough, S. A. Greenleaf. U
5/36
- R-1269 Electrical Characteristics, Performance and Suitability of G. E., Type FP-163, Time Delay Electronic Relay. K. M. Soukaras. U
5/36
- R-1270 Test of Foil Paper Capacitors, Potter No. 8260. U
5/36 R. W. Armstrong, Jr.
- R-1271 Test of Preliminary Model RU-4 Aircraft Radio Receiving Equipment. G. A. Lyle. U
5/36 PB122747, Mi\$3.90, Ph\$10.80.
- R-1272 Report on Preliminary Model GP-1 Equipment. J. C. Link, M. H. Schrenk. U
5/36 PB122698, Mi\$6.00, Ph\$18.30.
- R-1273 Test of Model CXL Radio Transmitting Equipment. J. M. Coe, R. B. Meyer. U
5/36

Numerical Index

R-1274 - M-1319

- R-1274 Applicability of the Spark Coil Transformer in Determining the Condition of Vacuum Tubes. G. P. Walker.
- R-1275 Tests of Models AVR-7 and AVR-7a Aircraft Radio Receivers. H. R. Miller.
- B-1276 Test on Buzzers, 115 Volt, A.C. and D.C. Types, submitted by Benjamin Electric Co. W. B. Roberts.
- P-1277 Investigation of Dehumidifying Agents for Submarines, II. Characteristics of Magnesium Chloride as a Desiccant. J. O. Clayton. PB122699, Mi\$2.70, Ph\$4.80
- P-1278 Investigation of Dehumidifying Agents for Submarines and Closed Spaces in Ships - Quicklime (Calcium Oxide) as a Desiccant. J. O. Clayton. PB122700, Mi\$2.40, Ph\$3.30.
- P-1279 Aviation Gasoline: The Solubility of Water in Gasoline. P. Borgstrom.
- P-1280 Aviation Gasoline: Study of the Effect on Gasoline Stored in Duprene-Lined Hose. G. O. Stone, P. Borgstrom.
- R-1281 Test of Model GF-2 Equipment, submitted by Aircraft Radio Corp. J. J. MacGregor. PB122701, Mi\$3.30, Ph\$7.80.
- S-1282 Sound Analysis of the USS S-20. E. B. Stephenson.
- B-1283 Test of Propeller Shaft Revolution Indicator System, submitted by Electric Tachometer Corp. J. R. Coomes, J. S. Bryant, W. B. Roberts.
- B-1284 Test of Wind Intensity and Direction Indicating Equipment, submitted by J. P. Friez and Sons, Inc. W. B. Roberts. PB122702, Mi\$2.40, Ph\$3.30.
- R-1285 Test of Model CXN Direction Finder Adapter, submitted by the Radio Research Co. J. C. Link, W. B. Burgess.
- R-1286 Test of Model LD-3 Combined Heterodyne Frequency Meter and Crystal Controlled Calibrator. R. B. Owens, R. W. Armstrong.
- H-1287 Spectroscopic Examination of the Gaseous Residuum after Chemical Analysis of the Gas Contained in the Bubbles Given Off by an Underwater Arc-Welding Torch. L. H. Dawson.
- R-1288 Tests of Model GP Telephone and Telegraph Transmitter by RCA. H. F. Hastings. PB122703, Mi\$5.70, Ph\$16.80.
- B-1289 Test of Buzzer, Navy Type B-2, submitted by Bendix Marine Products Co. J. S. Bryant, W. B. Roberts.
- B-1290 Test of Buzzer, Navy Type B-2, submitted by C. V. McBroom. J. S. Bryant, W. B. Roberts.
- P-1291 Chemical Oxygen Sources for Submarine Air Purification, II. P. Borgstrom. PB122704, Mi\$2.40, Ph\$3.30.
- P-1292 Dehumidification of Air for Submarines and Closed Spaces in Ships, Design of Hoppers for Calcium Chloride or Other Desiccants. J. O. Clayton. PB122706, Mi\$2.40, Ph\$3.30.
- P-1293 Oils for Calming Rough Waters. E. G. Lunn. PB122705, Mi\$1.80, Ph\$1.80.
- B-1294 Test of Lubricating Oil Low Pressure Alarm Contact Makers, submitted by Viking Instrument Inc. W. B. Roberts.
- R-1295 Test of Modified Model LJ Aircraft Crystal Frequency Indicators, submitted by Hygrade Sylvania Corp. H. R. Miller. PB122707, Mi\$2.70, Ph\$4.80.
- R-1296 Test of Head Telephone Receivers, Type CW 49003. R. B. Owens, R. W. Armstrong.
- B-1297 Test of Horn, Navy Type A1, submitted by E. A. Laboratories. W. B. Roberts.
- R-1298 Test of Weston Tropical Climate Voltmeter with Composition Multiplier. R. B. Owens, R. W. Armstrong.
- P-1299 Moravian Green Anti-Fouling Paint, I. The Inorganic Components. H. O. Farr, Jr. PB120652, Mi\$1.80, Ph\$1.80.
- R-1300 Data on Wave Propagation (10 Kc to 60 Mc). R. S. Baldwin, L. C. Young.
- M-1301 Intensifying Screens for Gamma Ray Radiography. C. W. Briggs, R. A. Gezelius. PB122708, Mi\$2.40, Ph\$3.30.
- H-1302 Dazzle Camouflage of Ships. C. Bittinger, E. O. Hulburt.
- M-1303 Research on the Weldability of Iron Alloys, II. W. H. Bruckner. PB122709, Mi\$2.70, Ph\$4.80.
- P-1304 Water Recovery in Lighter-than-Air Craft - Study of the Properties of Granular Silica Gel. J. E. Ahlberg. PB122710, Mi\$3.60, Ph\$9.30.
- R-1305 Test of Preliminary Model GF-3 Equipment, submitted by Aircraft Radio Corp. J. J. MacGregor.
- R-1306 Test of Potter Paper Foil Oil-Filled Capacitors. R. W. Armstrong.
- R-1307 Preliminary Models of Model TBO Portable Transmitting and Receiving Equipment. O. C. Dresser, R. B. Meyer, S. A. Greenleaf, T. McL. Davis.
- A-1308 Study of Methods for Converting Latent Heat Energy Directly into Electrical Energy. R. Gunn. PB122711, Mi\$2.40, Ph\$3.30.
- R-1309 Test of Weston Special 15KV Composition Resistor. R. B. Owens.
- R-1310 Tests of Model LM Radio Frequency Measuring Equipment, submitted by Radio Research Co. H. F. Hastings. PB122693, Mi\$3.60, Ph\$9.30.
- R-1311 Test of Weston Elapsed Time Indicator. R. B. Owens.
- R-1312 Test of Thermometers and Thermostats, submitted by Taylor Instrument Co. R. B. Owens, R. W. Armstrong.
- B-1313 Test on Fire Alarm Equipment, submitted by Chas. J. Henschel and Co. W. B. Roberts.
- R-1314 Test of Thermometers, submitted by The Palmer Co. R. B. Owens.
- M-1315 Electrolysis of Water to Produce Mixed Oxygen and Hydrogen. W. H. Sanders.
- B-1316 Test of Buzzer, Navy Type B-2, submitted by Holtzer-Cabot Electric Co. W. B. Roberts.
- H-1317 Stress Distribution Around Openings in Deck Plating. J. A. Sanderson, H. B. Maris. PB122694, Mi\$1.80, Ph\$1.80.
- R-1318 Test of Model TBL-2 Radio Transmitting Equipment, submitted by Westinghouse Electric Mfg. Co. R. B. Meyer, J. M. Coe, O. Norgorden.
- M-1319 Studies in Steel Castings Research. C. W. Briggs, R. A. Gezelius. PB122695, Mi\$2.40, Ph\$3.30.

B-1320	Test of Siren Type A-1, submitted by Portable Light Co.	B-1335	Tests of Bells and Buzzer, submitted by Portsmouth NYd.	H-1350	Camouflage of Submarines to Avoid Detection by Aircraft.
U		U		U	
10/36	J. S. Bryant, W. B. Roberts.	12/36	J. R. Coomes, J. S. Bryant, W. B. Roberts.	3/37	E. O. Hulburt, C. Bittinger. PB120473, Mi\$2.40, Ph\$3.30.
P-1321	The Analysis of Moravian Green Anti-Fouling Paint; the Individual Components, the Organic Material, and the Percentage Composition. H. O. Farr, Jr., L. P. Rankin.	R-1336	Effect of Generator Wave Form on the Operation of Alternating Current Receivers. J. D. Wallace.	R-1351	Test of Alsmag Ceramic Insulation Nos. 35 and 196.
U		U		U	
10/36	PB122696, Mi\$2.40, Ph\$3.30.	12/36		3/37	R. B. Owens, R. S. Baldwin.
B-1322	Test of Gun Firing Transformer, 200 V.A., submitted by Jefferson Electric Co. J. S. Bryant, W. B. Roberts.	R-1337	Tests of Electrical Indicating Instruments, submitted by Weston Electrical Instrument Co. M. H. Schrenk.	M-1352	Intensifying Screens for Gamma Ray Radiography (Supp. to NRL Report M-1303).
U		U		U	
10/36		1/37	PB120644, Mi\$3.30, Ph\$7.80.	3/37	C. W. Briggs, R. A. Gezelius. PB122659, Mi\$2.40, Ph\$3.30.
P-1323	Water Loss from Submarine Storage Cells.	H-1338	Underwater Visibility.	R-1353	Test of Model DR Direction Finder Equipment. R. H. Worrall.
U		U		U	
10/36	W. E. Whybrew, E. G. Lunn.	1/37	L. H. Dawson. PB120645, Mi\$2.70, Ph\$4.80.	4/37	
H-1324	Airplane Camouflage, Tests of Oct. 1, 1936 on Reduction of Day-time Visibility of Airplane by Artificial Illumination.	H-1339	Illumination for Battleship Aircraft Night Operations - Preliminary Tests. E. O. Hulburt.	P-1354	Aviation Gasoline Storage at Naval Air Station, Pensacola.
U		U		U	
10/36	E. O. Hulburt.	1/37		4/37	D. Fore, Jr.
B-1325	Test of Transformers, Gun-Firing, submitted by Allis-Chalmers Co.	B-1340	Test of Salinity Indicator Equipment, submitted by the Sperry Gyroscopic Co. W. B. Roberts.	M-1355	Studies on the Solidification and Contraction in Steel Castings - Contraction Stresses.
U		U		U	
10/36	W. B. Roberts, J. S. Bryant.	1/37		4/37	C. W. Briggs. PB109585, Mi\$2.00, Ph\$3.75.
R-1326	Weathering Test of Submarine Antenna Cable.	H-1342	Photoelastic Investigation of Deck Structures. H. B. Maris, J. A. Sanderson, D. H. Andrews.	R-1356	Re-Test of Model XTAJ-6 Radio Transmitting Equipment, submitted by General Electric Co.
U		U		U	
11/36	R. B. Owens, R. W. Armstrong.	1/37	PB120646, Mi\$4.80, Ph\$13.80.	4/37	J. M. Coe, O. C. Dresser, R. B. Meyer. PB120474, Mi\$4.80, Ph\$13.80.
O-1327	High Pressure Reducing Valves.	R-1343	Tests of Audio Transformers, submitted by Molded Insulation Co. M. H. Schrenk.	R-1357	Test of Model GP-3 Transmitting Equipment, submitted by Westinghouse Electric & Mfg. Co.
U		U		U	
11/36	D. L. Hay. PB122741, Mi\$2.40, Ph\$3.30.	2/37	PB120647, Mi\$2.40, Ph\$3.30.	4/37	M. H. Schrenk.
R-1328	Test of Model XTAJ-6 Radio Transmitting Equipment, submitted by General Electric Co.	P-1344	Supply of Oxygen for High Altitude Flying. E. G. Lunn.	B-1358	Test of Propeller Shaft Revolution Indicator System, submitted by the Pitometer Log Corp. J. R. Coomes, J. S. Bryant, W. B. Roberts.
U		U		U	
12/36	R. B. Meyer, J. M. Coe, O. C. Dresser.	3/37		4/37	
M-1329	Aging in Iron and Steel.	R-1345	Test of Insulating Varnishes for Radio Frequency Uses.	B-1359	Test of Propeller Shaft Revolution Indicator Equipment, submitted by the Electric Tachometer Corp.
U		U		U	
12/36	C. W. Briggs, R. A. Gezelius. PB120643, Mi\$3.90, Ph\$10.80.	3/37	R. B. Owens, R. W. Armstrong. PB120648, Mi\$2.40, Ph\$3.30.	4/37	J. R. Coomes, J. S. Bryant, W. B. Roberts. PB122658, Mi\$2.40, Ph\$3.30.
B-1330	Test of Buzzer, Type B-1, submitted by Bendix Marine Prod.	P-1346	The Preparation and Properties of Solidified Gasoline.	P-1360	Acid Heat of Aviation Gasolines.
U		U		U	
12/36	Co. J. S. Bryant, W. B. Roberts.	3/37	D. Fore, Jr. PB120472, Mi\$2.70, Ph\$4.80.	4/37	W. E. Whybrew, C. A. Rehbein.
R-1331	Concentrated Capacity and Inductance as Substitute for Horizontal Antennas on Board Ship.	R-1347	Test of Models DP-4, DP-5, DP-6 and DQ-1, Radio D. F. Equipment. J. H. Gough, W. B. Burgess.	R-1361	Test of Resubmitted Continental Electric Motor Generator Set.
U		U		U	
12/36	O. Norgorden, J. M. Coe, R. B. Meyer. PB122669, Mi\$4.80, Ph\$13.80.	4/37		5/37	R. B. Owens.
P-1332	Heat Balance and Current Distribution Studies on Lead-Acid Storage Cells. E. G. Lunn, H. D. Crockford.	R-1347-A	Addenda to Report of Test of Models DP-4, DP-5 and DP-6, DQ-1 Direction Finder Receivers as Given in NRL Report R-1347.	H-1362	Illumination for Battleship Aircraft Night Operations, Further Tests. E. O. Hulburt.
U		U		U	
12/36		3/37	W. B. Burgess, T. McL. Davis.	5/37	PB120475, Mi\$1.80, Ph\$1.80.
B-1333	Test of Buzzer, Navy Type B-2, submitted by Batteryless Telephone Co.	B-1348	Master Speed Repeater Indicator, submitted by Pitometer Log Corp. J. R. Coomes, J. S. Bryant, W. B. Roberts.	B-1363	Test of Wind Intensity and Direction Indicating Equipment, submitted by Chas. J. Henschel & Co.
U		U		U	
12/36	J. S. Bryant, W. B. Roberts.	3/37		5/37	J. R. Coomes, J. S. Bryant, W. B. Roberts. PB122661, Mi\$2.70, Ph\$4.80.
P-1334	Submarine Storage Batteries; X-Ray Studies of Active Material.	B-1349	Test on Transformers, Overload and Blown Fuse Types, submitted by General Electric Co.		
U		U			
12/36	E. G. Lunn.	3/37	W. B. Roberts.		

Numerical Index

R-1364 - B-1408

- R-1364 Test of Model TBP Transmitting and Receiving Equipments, submitted by the Westinghouse Mfg. Co. J. D. Wallace, H. R. Miller.
U
5/37
- B-1365 Test on Twin Buzzer, submitted by Bendix Marine Products, J. S. Bryant, W. B. Roberts.
U
5/37
- R-1366 Test of Preliminary Models of Model XTBR-1 Receiving Equipment. S. A. Greenleaf.
U
5/37
- H-1367 Attempts to Measure Visibility at Sea. E. O. Hulburt.
U
5/37
- B-1368 Test of Overload Transformers, submitted by Arma Engineering Co. W. B. Roberts.
U
5/37
- B-1369 Test of Bells, Vibrating, 4 and 8 Inch, submitted by Bendix Marine Products Co. J. S. Bryant, W. B. Roberts.
U
5/37
- R-1370 Static Direction Finder Research. W. M. Lockhart.
U
5/37 PB120653, Mi\$2.70, Ph\$4.80.
- B-1371 Test of Buzzers, Navy Type BI and A4, submitted by Federal Electric Co. W. B. Roberts.
U
6/37
- H-1372 Observations of a Searchlight Beam to an Altitude of 28 Kilometers. E. O. Hulburt.
U
6/37 PB120654, Mi\$2.40, Ph\$3.30.
- B-1373 Test of Transformer, Gun Firing, 200 Volt-Amperes, submitted by Jefferson Electric Co. J. S. Bryant, W. B. Roberts.
U
6/37
- R-1374 Band Change Switch of Models TBO and TBO-1 Portable Radio Equipment. R. H. Worrall.
U
6/37 PB120655, Mi\$2.40, Ph\$3.30.
- S-1375 Aircraft Detector for Use on Submarines. F. W. Struthers.
U
6/37
- M-1376 The Effect of Mass Upon the Mechanical Properties of Cast Steel.
U
7/37 C. W. Briggs, R. A. Gezelius; PB122758, Mi\$3.00, Ph\$6.30.
- B-1377 Test on Overload Transformers, submitted by Bendix Marine Products Co. W. B. Roberts.
U
7/37
- R-1378 Test of Various Conductors to Determine Their Adaptability for Receiving Antenna Lead Wiring in Radio Compartments. T. McL. Davis.
U
7/37
- P-1379 Fire Extinguishers; Foaming Agents and Generators for Foam Fire Extinguishers. E. G. Lunn.
U
7/37
- R-1380 Tests of Neon Lamps as Substitute for Vacuum Tubes in Radio Receiver Output Limiting Devices. W. B. Burgess, R. H. Worrall.
U
7/37
- P-1381 Resistance-Temperature Curves of Salinity Solutions.
U
7/37 E. G. Lunn, W. E. Whybrew.
- M-1382 Research on the Weldability of Iron Alloys, III. W. H. Bruckner.
U
7/37 PB120656, Mi\$4.50, Ph\$12.30.
- R-1383 Test to Determine the Practicality of Substituting Type 38593 for Type 38180 Rectifier Tubes in Model RAL Receivers and Model OD Vacuum Tube Analyzer Equipments. S. A. Greenleaf.
U
7/37 PB120453, Mi\$1.80, Ph\$1.80.
- B-1384 Test on Duplex Horn, submitted by Signal Engineering and Mfg. Co. W. B. Roberts.
U
7/37
- B-1385 Test of Motor Operated, Time Limit Remote Controlled Contact Maker, submitted by Chas. J. Henschel & Co., Inc. J. R. Coomes, J. S. Bryant, W. B. Roberts.
U
8/37
- R-1386 Tests on Model DK Direction Finder Receiver to Determine Signal-Noise Characteristics and Make Recommendations as to Any Corrective Action Required on Model DK Receivers in the Service. S. A. Greenleaf.
U
8/37 PB123277, Mi\$2.40, Ph\$3.30.
- R-1387 Test of Model CO-2 Transmitters, submitted by Western Electric Co. H. F. Hastings, M. H. Schrenk.
U
8/37
- B-1388 Test of Blown-Fuse Indicator Transformers, submitted by Arma Eng. Co. W. B. Roberts.
U
8/37
- M-1389 A Method for Locating Cracks and Faults in Metallic Structural Members and Machine Parts. H. F. Kaiser.
U
8/37 PB123242, Mi\$2.70, Ph\$4.80.
- P-1390 The Preparation and Properties of Solidified Gasoline, I.
U
8/37 D. Fore, Jr. PB120383, Mi\$2.40, Ph\$3.30.
- P-1391 Use of Infra-Red Absorption Data for Showing Presence of Unsaturation and Aromatic Components in Aviation Gasoline. J. A. Anderson.
U
9/37
- P-1392 Storage Batteries: X-Ray Studies.
U
9/37 E. G. Lunn.
- P-1393 Storage Stability of Gasoline, 1936-1937. C. A. Rehbein.
U
9/37 PB123243, Mi\$2.40, Ph\$3.30.
- P-1394 The Qualitative Identification of the Various Functional Groups Present in Aviation Gasoline. R. W. Bost.
U
9/37
- R-1395 Test of Wire-Wound Fixed Resistors, submitted by Ward Leonard. R. B. Owens, R. S. Baldwin.
U
9/37
- B-1396 Test on Buzzer, Type A-3, submitted by Navy Yard, Portsmouth, N.H. J. R. Coomes, W. B. Roberts.
U
9/37
- B-1397 Test of Spotlight, Incandescent, submitted by S. H. Thompson Mfg. Co. W. B. Roberts.
U
9/37
- B-1398 Test of Buzzer-Navy Type B-2 submitted by Control Instrument Co. J. R. Coomes, W. B. Roberts.
U
9/37
- B-1399 Test of Sirens, Type A-1, submitted by Clark Cooper Co. J. R. Coomes, W. B. Roberts.
U
9/37
- M-1400 Tests Made With Optical Stethoscope Developed by Professor J. E. Shrader, Drexel Institute of Technology. K. C. Ripley. PB120435, Mi\$2.40, Ph\$3.30.
U
9/37
- H-1401 Photo-Elastic Investigation of Stresses Surrounding Reinforced Rectangular Deck Openings. H. B. Maris.
U
9/37 PB120436, Mi\$3.30, Ph\$7.80.
- B-1402 Test of Buzzer, Navy Type B-2 submitted by Clark Cooper Co. J. R. Coomes, W. B. Roberts.
U
9/37
- B-1403 Test of Bell and Buzzer, submitted by Chas. J. Henschel and Co. J. R. Coomes, W. B. Roberts.
U
10/37
- S-1404 Sound Research and Development with Particular Reference to Tests on the USS SEMMES, July 6-28, 1937. H. C. Hayes.
U
10/37
- B-1405 Test of Rotary Balance Log System, submitted by Pitometer Log Corp. J. R. Coomes, J. S. Bryant, W. B. Roberts.
U
10/37
- R-1406 Test of International Wire-Wound Resistors. R. B. Owens, R. W. Armstrong.
U
11/37
- R-1407 Test of Band Change Switch, Model TBR, Addenda to Report R-1374 on Band Change Switch of Models TBO and TBO-1 Portable Radio Equipment, submitted by General Electric Co. R. H. Worrall.
U
11/37
- B-1408 Test of Sirens, Types A and B, submitted by E. D. Bullard Co. J. R. Coomes, J. S. Bryant, W. B. Roberts.
U
11/37

- H-1409 Low Visibility Camouflage of Submarines - Tests at Sea of June and July 1937.
U
11/37 E. O. Hulbert, C. Bittinger.
PB120382, Mi\$2.40, Ph\$3.30.
- P-1410 Gassing Characteristics of Flat Plate Lead-Acid Storage Cells During Discharge.
U
12/37 W. E. Whybrew, H. D. Crockford.
- B-1411 Test of Tachometer, Centrifugal Type Self-Synchronous Motor Coupled, submitted by Jones Motrola Co. J. R. Coomes, J. S. Bryant, W. B. Roberts, PB120454, Mi\$2.40, Ph\$3.30.
- R-1412 The Effect of Power Supply Wave Form on the Operation of the XTBR-1 Receiving Equipment.
U
12/37 J. D. Wallace.
- S-1413 Investigation of Turbulence Beneath a Destroyer.
U
12/37 E. B. Stephenson, W. F. Curtis.
PB120384, Mi\$2.40, Ph\$3.30.
- R-1414 Test of Hardwick, Hindle Wire Wound Resistors. R. B. Owens.
U
12/37 PB120455, Mi\$2.40, Ph\$3.30.
- R-1415 Test of Westinghouse Total Hour Meter. R. S. Baldwin.
U
12/37
- H-1416 Measurement of Brightness of Self-Luminous Paint.
U
1/38 L. H. Dawson.
- R-1417 Test of Navy 30328 Plate Transformers for Model GO Transmitting Equipment, submitted by Standard Transformer Co. J. J. MacGregor.
U
1/38 PB120456, Mi\$2.40, Ph\$3.30.
- B-1418 Test of Spotlights, Incandescent, submitted by Carpenter Mfg. Co.
U
1/38 W. B. Roberts.
- M-1419 Summary Report of Research of the Weldability of Iron Alloys.
U
1/38 W. H. Bruckner.
PB123279, Mi\$3.90, Ph\$10.80.
- M-1420 Steel Casting Design for the Engineer and Foundryman.
U
1/38 C. W. Briggs, R. A. Gezelius, A. R. Donaldson.
PB123280, Mi\$4.80, Ph\$13.80.
- R-1421 Test of Model XTBR-1 Radio Equipment, submitted by General Electric Co. R. B. Meyer, C. B. Davis, J. M., Coe, O. C. Dresser.
U
1/38
- B-1422 Test of Spotlight Incandescent, submitted by S. and M. Lamp Co.
U
1/38 W. B. Roberts.
- M-1423 Gamma Ray Radiography of Pipe Welds.
U
2/38 C. W. Briggs, R. A. Gezelius.
PB123281, Mi\$1.80, Ph\$1.80.
- M-1424 Gamma Ray Radiography with Eastman Double-Backed Industrial Intensifying Screen. C. W. Briggs, R. A. Gezelius.
U
2/38 PB123282, Mi\$2.40, Ph\$3.30.
- R-1425 Suggestions for Revision of the Specifications for Ceramic Insulating Materials. R. B. Owens.
U
2/38
- P-1426 The Suitability of Rubatex and Chlorinated Rubber as a Floation Material.
U
2/38 J. C. White.
- R-1427 Test of Model LM-2 Crystal Frequency Indicator, submitted by Bendix Radio Corp. J. C. Link.
U
2/38 PB123283, Mi\$3.00, Ph\$6.30.
- M-1428 Magnetic Examination of Four Plates from Norfolk Navy Yards.
U
3/38 K. C. Ripley.
PB123284, Mi\$1.80, Ph\$1.80.
- O-1429 Light Armor Investigation, II.
U
3/38 G. R. Irwin.
- R-1430 Test of Weston Wire Wound Voltmeter Multiplier Resistors.
U
3/38 R. B. Owens.
- R-1431 The Determination of the Components of the Reverse Current Flowing in the Control Grid Circuit of Negatively Biased Transmitting Tubes. K. M. Soukaras.
U
3/38 PB123285, Mi\$2.40, Ph\$3.30.
- H-1432 The Brightness of the Twilight Sky and the Density of the Atmosphere to about 60 Km. E. O. Hulbert.
U
3/38 PB123286, Mi\$2.70, Ph\$4.80.
- R-1433 Preliminary Model XGO-3 Transmitting Equipment, submitted by Westinghouse Electric & Mfg. Co. J. C. Link, J. J. MacGregor.
U
3/38
- R-1434 Improvements in the Measurement of the Direct Interelectrode Capacitances of Vacuum Tubes. K. M. Soukaras, C. H. Williams.
U
3/38
- M-1435 Synthetic Bonded Steel Molding Sands. R. E. Morey.
U
3/38 PB123287, Mi\$3.00, Ph\$6.30.
- B-1436 Test of Contact Makers, Type L, Class I, submitted by Clark Cooper Co. W. B. Roberts.
U
3/38
- R-1437 Losses in Radio Transmission Lines at High Frequency.
U
4/38 J. D. Wallace.
PB123248, Mi\$3.00, Ph\$6.30.
- O-1438 Light Armor Investigation, III. The Effect of the Jacket of the Caliber 30 AP Bullet Upon Penetration of Steels.
U
4/38 G. R. Irwin.
- R-1439 Test of Ward Leonard Wire Wound Fixed Resistors Grade I, Class II.
U
4/38 R. B. Owens, R. W. Armstrong.
- O-1440 Light Armor Investigation, IV, Laminated, Spaced and Compound Plates. G. R. Irwin.
U
4/38 PB120424, Mi\$2.40, Ph\$3.30.
- B-1441 Test on Salinity Indicator Equipment, submitted by Bendix Marine Products Co.
U
4/38 G. K. C. Hardesty, W. B. Roberts.
- H-1442 Tests on Photo-Elastic Investigation of Turret Openings in Deck Structure. H. B. Maris.
U
5/38
- M-1443 Studies of Grid Alloys for Submarine Storage Batteries.
U
6/38 H. F. Taylor.
- B-1444 Test of Horn, Navy Type H-1, submitted by Bendix Marine Products Co. J. S. Bryant, W. B. Roberts.
U
6/38
- R-1445 Test of Bakelite Vacuum Tube Base Materials.
U
6/38 R. W. Armstrong.
- R-1446 A Mathematical Analysis of the Radiation Characteristics of Partially Shielded Antennas. O. Norgorden.
U
6/38 PB120425, Mi\$2.40, Ph\$3.30.
- H-1447 The Path of a Ray of Light Tangent to the Surface of the Earth.
U
6/38 J. Sweer.
PB120426, Mi\$2.40, Ph\$3.30.
- R-1448 A Study of the Radiation Characteristics of Shipboard Antenna Systems. O. Norgorden, R. B. Meyer.
U
6/38 PB120427, Mi\$3.30, Ph\$7.80.
- R-1449 Test of Model LD-4 Frequency Measuring Equipment (Preliminary Redesigned Model), submitted by Bendix Radio Corp.
U
6/38 R. B. Owens, R. W. Armstrong.
- B-1450 Test of Pitometer Log System for Contract Suitability for Ships SS 188 to SS 193 Inclusive.
U
6/38 G. K. C. Hardesty, W. B. Roberts.
- B-1451 Test of Motor Operated, Time Limit, Remote Controlled Contact Maker Type K Class I, submitted by Clark Cooper Co.
U
6/38 J. S. Bryant, W. B. Roberts.
- R-1452 Test of Model RAM Receiving and Model GN Transmitting Equipments submitted by Western Electric Co. J. J. MacGregor, M. H. Schrenk.
U
6/38
- B-1453 Tests of Samples of Types B-7 and B-8 Single Stroke Chimes, submitted by Benjamin Electric Mfg. Co. J. R. Coomes, W. B. Roberts.
U
6/38

Numerical Index

B-1454 - H-1496

- B-1454 Test of Samples of Types B-7 and
U B-8 Single Stroke Chimes, sub-
8/38 mitted by Federal Electric Co.
J. R. Coomes, W. B. Roberts.
- B-1455 Test of Electric Log Equipments
U for USS SEMMES, submitted by
7/38 Julian P. Friez & Sons.
J. S. Bryant, J. R. Coomes,
W. B. Roberts.
PB120428, Mi\$2.40, Ph\$3.30.
- M-1456 The Effect of Type of Cold-
U Deformation on the Recrystalliza-
7/38 tion Properties of Armco Iron.
H. F. Kaiser, H. F. Taylor.
PB120434, Mi\$3.00, Ph\$6.30.
- R-1457 Test of Preliminary Model XGQ
U Equipment, submitted by the
7/38 Radio Research Co., Inc.
J. J. MacGregor.
- R-1458 Test of Speech Input Equipment
U for Model TBL-2 and TBL-3
7/38 Transmitting Equipment.
J. M. Coe.
- R-1459 Test of Commercial Receivers,
U National Co. Types HRO and NC
7/38 100X, Hammarlund Mfg. Co.
Type Super-Pro, SP110-S
McMurdo Silver Corp. Type
"15-17." S. A. Greenleaf.
PB123247, Mi\$4.50, Ph\$12.30
- R-1460 Test of Composition and Wire
U Wound Voltmeter Multipliers,
7/38 submitted by Weston Electrical
Instrument Corp. R. B. Owens.
- R-1461 Description of Naval Research
U Laboratory Vacuum Tube
7/38 Capacitance Measuring Equip-
ment - Range .003 to 100 μ m f.
K. M. Soukaras, J. T. Fetsch.
PB120459, Mi\$2.70, Ph\$4.80.
- R-1462 Retest of Style A Wire Wound
U Resistors, Grade 1, Class II,
7/38 submitted by International
Resistance Co. R. B. Owens.
- B-1463 Test of Samples of Horns, Types
U H-3 and H-4, submitted by
8/38 Federal Electric Co.
J. R. Coomes, W. B. Roberts.
- R-1464 Correct Capacitance Measurement
U Procedure on Metal Base Vacuum
8/38 Shell Tubes. K. M. Soukaras.
PB120460, Mi\$2.70, Ph\$4.80.
- B-1465 Test of Siren, Type S-3 and S-4,
U submitted by Federal Electric
8/38 Co. J. R. Coomes, W. B. Roberts.
- S-1466 Absorption Coefficients of Sound
U in Sea Water. E. B. Stephenson.
8/38 PB120385, Mi\$3.30, Ph\$7.80.
- H-1467 Ultra-Violet Signalling Equip-
U ment Tests of January 1938.
8/38 E. O. Hulburt.
- M-1468 Effect of Heat Treatment Upon
U Lamination Detector Readings.
8/38 K. C. Ripley.
PB120461, Mi\$1.80, Ph\$1.80.
- B-1469 Test of Siren, Types S-1, S-2,
U submitted by Federal Electric Co.
8/38 J. R. Coomes, W. B. Roberts.
- B-1470 Test of Sirens, Types S-3 and S-4,
U submitted by Clark Cooper Co.
8/38 J. R. Coomes, W. B. Roberts.
- R-1471 Test of Composition Resistors
U for High Frequency Applications.
8/38 H. Granger.
- B-1472 Test of Low Pressure Alarm
U Contact Maker, Type L, Class I,
8/38 submitted by Bendix Marine Co.
J. R. Coomes, W. B. Roberts.
- R-1473 Test of Racon Midget Marine
U Amplifier Reproducer.
9/38 R. B. Owens.
- M-1474 Fluidity of Cast Steel: II.
U C. W. Briggs, H. F. Taylor.
9/38 PB123309, Mi\$3.00, Ph\$6.30.
- R-1475 Test of Model DV Direction
U Finder Equipment, Serial #5,
9/38 submitted by Bendix Radio Corp.
R. A. Gordon.
PB123291, Mi\$3.00, Ph\$6.30.
- R-1476 Test of Head Telephone Receivers,
U Type CAU-49003, submitted by
9/38 Automatic Electric Co.
R. W. Armstrong.
PB123297, Mi\$2.40, Ph\$3.30.
- B-1477 Test of Salinity Indicator Equip-
U ment, submitted by Control
9/38 Instrument Co.
G. K. C. Hardesty, W. B. Roberts.
PB120462, Mi\$2.70, Ph\$4.80.
- M-1478 Synthetic Bondage Steel Molding
U Sands. R. E. Morey.
9/38 PB120463, Mi\$3.90, Ph\$10.80.
- M-1479 The Strength and Ductility of
U Steel Castings at Hot Tearing
9/38 Temperatures, 1250-1400°C.
C. W. Briggs.
PB120464, Mi\$2.70, Ph\$4.80.
- R-1480 Test of Navy Type 30328 Plate
U Transformers for Model GO
9/38 Transmitting Equipment, sub-
mitted by Standard Transformer
Co. J. J. MacGregor.
PB120465, Mi\$2.70, Ph\$4.80.
- P-1481 Gasoline Storage Stability, 1937-
U 1938. D. Fore, Jr.
10/38 PB120380, Mi\$2.40, Ph\$3.30.
- R-1482 Test of Wire Wound Resistors,
U submitted by the Ward Leonard
10/38 Electric Co.
R. B. Owens, R. W. Armstrong.
- R-1483 Test of Model CBM-46061-A
U Amplifier for Sub-Aqueous Echo
10/38 Ranging.
G. E. Pray, L. T. Bourland.
- B-1484 Test of Bells, Navy Type B-4
U and B-6, submitted by Chas J.
10/38 Henschel & Co.
J. R. Coomes, W. B. Roberts.
- B-1485 Test of Bells, Navy Type B-1
U and B-2, submitted by
10/38 Portsmouth NYd.
J. R. Coomes, W. B. Roberts.
- R-1486 Test of Multiplier Resistor for
U 250 V. Voltmeter, submitted by
10/38 the Weston Electric Instrument
Co. R. B. Owens.
- R-1487 Test of Model DW Radio Direc-
U tion Finder Equipment, submitted
10/38 by the Bendix Radio Corp.
R. A. Gordon.
- B-1488 Test of Wind Intensity Indicator
U System for USS WASP (CV7),
11/38 submitted by J. P. Friez & Sons,
Inc. J. R. Coomes,
J. S. Bryant, W. B. Roberts.
PB120381, Mi\$2.40, Ph\$3.30.
- R-1489 Test of Impedance Matching
U Transformer Type CFL-47119,
11/38 submitted by Fred M. Link.
S. A. Greenleaf.
PB123288, Mi\$2.70, Ph\$4.80.
- R-1490 Test of Wire Wound Resistors,
U submitted by the Ohmite Mfg.
11/38 Co. R. B. Owens.
PB123289, Mi\$2.40, Ph\$3.30.
- R-1491 Test of Wire Wound Fixed
U Resistors, submitted by Hard-
11/38 wick Hindle, Inc. R. B. Owens.
- B-1492 Test of Sample of Type H-5 Motor
U Boat Horn, submitted by Control
11/38 Instrument Co.
G. K. C. Hardesty, W. B. Roberts.
- H-1493 Tests on Photo-Elastic Investi-
U gation of Turret Openings in
11/38 Deck Structure, Supplementary
Report. H. B. Maris.
PB120386, Mi\$2.40, Ph\$3.30.
- B-1494 Test of Horn, Navy Type H-2,
U submitted by Benjamin Electric
11/38 Mfg. Co.
G. K. C. Hardesty, W. B. Roberts.
- R-1495 Test of Ferris Model 32A Inter-
U ference Locator and Field
11/38 Strength Meter. W. E. Bower.
PB123383, Mi\$2.40, Ph\$3.30.
- H-1496 Naval Camouflage, Tests at Sea
U of May and June 1938.
12/38 E. O. Hulburt, C. Bittinger.
PB123276, Mi\$3.00, Ph\$6.30.

- B-1497 Test of Motors, Indicator, Navy
U Type "N," submitted by Bendix
12/38 Marine Products Corp.
G. K. C. Hardesty, W. B. Roberts.
- R-1498 Test of Model TBP Transmitting
U and Receiving Equipment, sub-
12/38 mitted by Westinghouse Electric
and Mfg. Co. J. J. MacGregor.
PB120387, Mi\$3.00, Ph\$6.30.
- P-1499 The Sensitivity of the Qualitative
U Identification of Various Func-
12/38 tional Groups Present in Aviation
Gasoline; Chemical Methods.
R. W. Bost.
PB123295, Mi\$2.40, Ph\$3.30.
- P-1500 Spectroscopic Determination of
U Various Functional Groups
12/38 Present in Aviation Gasoline.
J. A. Sanderson, D. L. Cook.
PB123298, Mi\$3.00, Ph\$6.30.
- M-1501 Completely Portable Radioactivity
U Meter Requiring no High Voltage
12/38 Battery. H. F. Kaiser.
PB123296, Mi\$2.40, Ph\$3.30.
- R-1502 Test of Model DU Direction
U Finder Equipment, submitted by
12/38 Bendix Radio Corp. R. A. Gordon.
PB120388, Mi\$3.30, Ph\$7.80.
- R-1503 Test of Model LD-4 Frequency
U Measuring Equipment, submitted
12/38 by Bendix Radio Corp.
R. B. Owens.
- S-1504 A Uni-Control System for Sound
U Listening and Echo-Ranging.
12/38 W. W. Wiseman.
- P-1505 Densities and Freezing Points of
U Solutions of Sodium Permanganate.
1/39 R. R. Miller, J. C. White.
- M-1506 Installation of Naval Research
U Laboratory Lamination Detector
1/39 at Phila, NYd. K. C. Ripley.
PB123294, Mi\$3.00, Ph\$6.30.
- R-1507 Test of Model XTBK-8 Trans-
U mitting Equipment, submitted by
1/39 RCA. R. B. Meyer,
H. R. Johannessen, D. J. Burke.
- R-1508 Test of Preliminary Model TBS,
U Transmitting Equipment, sub-
1/39 mitted by RCA.
J. M. Coe, F. C. Kahler.
PB120458, Mi\$5.70, Ph\$16.80.
- R-1509 Test on Model TBS Receiver,
U submitted by the RCA Mfg. Co.
1/39 H. G. Lindner, S. A. Greenleaf.
- R-1510 Test of Type 4SR1A2 Super-
U regenerative Receiver.
1/39 H. G. Lindner.
- R-1511 The Determination of the Grid
U Driving Power in Radio Frequency
1/39 Power Amplifiers.
K. M. Soukaras.
- R-1512 Test of Samples of Ultra-Steatite
U 682, submitted by General
1/39 Ceramics Co. W. E. Bower.
PB120431, Mi\$1.80, Ph\$1.80.
- R-1513 Test of Mycalex 1364, submitted
U by General Ceramics Co.
1/39 W. E. Bower.
PB120430, Mi\$1.80, Ph\$1.80.
- S-1514 Development of Electrodynamic
U Type of Underwater Sound
2/39 Projector.
P. N. Arnold, H. C. Hayes.
- R-1515 Test of Filter Unit for Elimina-
U tion of Key Clicks at Shore
2/39 Stations. W. A. Christie.
- R-1516 The Determination of Conversion
U Conductance at Power Frequencies.
2/39 K. M. Soukaras.
- R-1517 Study of the Problem of Detection.
U K. M. Soukaras.
2/39 PB120429, Mi\$3.60, Ph\$9.30.
- B-1518 Test on Transformer, Gun Fir-
U ing, 100 Volt-Amperes, submitted
2/39 by Control Instrument Co.
W. B. Roberts, J. S. Bryant.
- H-1519 Experiments with Sensitive
U Detectors of Ultra-Violet and
2/39 Infra-Red Radiations.
E. O. Hulbert.
PB120389, Mi\$3.00, Ph\$6.30.
- R-1520 Test of RCA Type TMV-75B
U Field Intensity Meter.
3/39 H. Granger.
PB120432, Mi\$2.70, Ph\$4.80.
- R-1521 Test of Oscillator, Model 776,
U submitted by Weston Electrical
3/39 Instrument Co. S. A. Greenleaf.
- H-1522 Photoelastic Study of Stress Sur-
U rounding Uptake Openings.
3/39 H. B. Maris.
PB120433, Mi\$1.80, Ph\$1.80.
- B-1523 Test of Horn, Navy Type H-5,
U submitted by Benjamin Electric
3/39 Mfg. Co.
G. K. C. Hardesty, W. B. Roberts.
- H-1524 Deck Stresses Surrounding a
U Turret Opening - Supplementary
3/39 Report. H. B. Maris.
PB120390, Mi\$1.80, Ph\$1.80.
- R-1525 Test of Model XTBL-4 Radio
U Transmitting Equipment, sub-
3/39 mitted by RCA. O. Norgorden,
F. C. Kahler, R. B. Meyer.
PB123246, Mi\$9.60, Ph\$33.30.
- H-1526 Photoelastic Investigation of
U Stresses in the Main Deck Plating
4/39 in Way of Uptake Openings.
H. B. Maris.
PB123251, Mi\$2.40, Ph\$3.30.
- P-1527 The Oxidation and Gumming
U Tendency of Certain Typical Com-
4/39 ponent Hydrocarbons of Aviation
Gasoline. C. A. Rehbein,
D. Fore, J. A. Sanderson.
PB123252, Mi\$3.60, Ph\$9.30.
- B-1528 Test of Buzzers, Navy Types
U Z-1 and Z-2, submitted by
4/39 Portsmouth NYd.
G. K. C. Hardesty,
W. B. Roberts.
- B-1529 Test of Horns, Navy Type H-1
U and H-2, submitted by
4/39 Portsmouth NYd.
G. K. C. Hardesty,
W. B. Roberts.
- B-1529A Test of Horn, Type H-2, sub-
U mitted by Portsmouth NYd.
9/39 F. H. Dunlap.
- R-1530 Investigation of an Improved
U Design for a Break-In Relay for
4/39 Aircraft Transmitter-Receiver
Equipment.
H. R. Miller.
- H-1531 The Useful Life of Radio-Active
U Self-Luminous Material.
4/39 L. H. Dawson.
PB123253, Mi\$2.40, Ph\$3.30.
- P-1532 Characteristics of Petroleum
U Thinners Available Commercially
5/39 for Organic Protective Coatings.
A. L. Alexander.
PB120437, Mi\$2.70, Ph\$4.80.
- B-1533 Test of Horn, Navy Type H-2,
U submitted by Federal Electric Co.
5/39 G. K. C. Hardesty, W. B. Roberts.
- O-1534 Impact Testing with the Darts
U from Caliber .50 AP Bullets.
5/39 G. R. Irwin, R. A. Webster.
- B-1535 Test of Shaft Revolution Indicator
U Equipment, submitted by Bendix
5/39 Aviation Corp. J. R. Coomes,
J. S. Bryant, W. B. Roberts.
- M-1536 The Density of Naval (Hydrogen
U Peroxide) Solutions as Dependent
6/39 on Temperature, Including a
Nomogram for Rapid
Determinations.
R. R. Miller.
- R-1537 Determination of Interference
U Levels. W. E. Bower.
6/39 PB120438, Mi\$2.70, Ph\$4.80.
- S-1538 Reduction of Sound in Diving
U Helmets. F. W. Struthers.
6/39 PB120439, Mi\$1.80, Ph\$1.80.
- B-1539 Test of Sirens, Types S-1, S-2,
U S-3, and S-4, submitted by
6/39 E. D. Bullard Co.
G. K. C. Hardesty, W. B. Roberts.

Numerical Index

O-1540 - S-1582

- O-1540 Light Armor, V. The Effect of
U
6/39 Yaw Upon Penetration; The
Effect Upon Bullets of Penetrating
Very Thin Duralumin Sheets;
and the Use of Shielding in the
Form of Gratings.
G. R. Irwin, R. A. Webster.
PB122806, Mi\$2.70, Ph\$4.80.
- P-1541 The Investigation of Lubricating
U
6/39 Oil for Naval Use.
C. M. Murphy.
PB120440, Mi\$2.40, Ph\$3.30.
- R-1542 Test of Insanol Composition No.
U
6/39 193, submitted by Westinghouse
Electric & Mfg. Co.
W. E. Bower.
- M-1543 Rapid Determination of Oxygen
U
6/39 in Steel.
H. F. Taylor, L. Singer.
PB120441, Mi\$2.40, Ph\$3.30.
- M-1544 Research of the Weldability of
U
6/39 Iron Alloys.
C. E. Jackson, E. A. Rominski.
PB120442, Mi\$3.00, Ph\$6.30.
- B-1545 Test of General Alarm Contact
U
7/39 Maker, Type K, Class I, sub-
mitted by Bendix Aviation Corp.
J. S. Bryant, J. R. Coomes,
W. B. Roberts.
- R-1546 Test of Two RAG-1 Receiving
U
7/39 Equipments, Serial No. 1 and
Serial No. 18. G. E. Pray.
- M-1547 The Fogging of Photographic
U
7/39 Materials by Radiographic
Radium. H. F. Kaiser.
PB120443, Mi\$2.40, Ph\$3.30.
- R-1548 Receiver Fidelity Test of Under-
U
7/39 standability of Voice Reception
and Necessary Frequency Band.
J. F. Lee, Jr.
PB120444, Mi\$2.40, Ph\$3.30.
- S-1549 Absorption Coefficients of Super-
U
8/39 sonic Sound in Open Sea Water.
E. B. Stebbenson.
PB120445, Mi\$4.50, Ph\$12.30.
- P-1550 Acetone Extraction of Phenolic
U
8/39 Materials.
D. Cook, F. Magnusson.
- H-1551 Recoil Forces between Turret
U
8/39 and Hatch Openings.
H. B. Maris.
PB120391, Mi\$1.80, Ph\$1.80.
- R-1552 Test of Type K Multi-Channel
U
8/39 Transmitting and Receiving
Equipment, submitted by
Aircraft Radio Corp.
J. J. MacGregor, G. C. Schleiter.
- R-1553 Test of Model XTAQ-5 Radio
U
8/39 Transmitting Equipment, sub-
mitted by G. E. Co. J. D.
Wallace, F. C. Kahler, R. B.
Meyer.
- S-1554 Performance of the Electro-
U
8/39 dynamic Sound Projector XQD-5.
P. N. Arnold.
PB120392, Mi\$2.40, Ph\$3.30.
- P-1555 The Microscopic Examination of
U
8/39 Zinc Chromate Primers.
A. L. Alexander.
PB120446, Mi\$2.40, Ph\$3.30.
- R-1556 Equipment for Radio Transmis-
U
8/39 sion of Electrical Strain Gage
Data. G. C. Schleiter.
PB122807, Mi\$1.80, Ph\$1.80.
- B-1557 Test of Wind Intensity Indicators,
U
9/39 submitted by Julian P. Friez &
Sons, Inc. W. B. Roberts,
J. R. Coomes, J. S. Bryant.
- B-1558 Test of Navy Types B-2 Bell and
U
9/39 Z-2 Buzzer, submitted by
Henschel Corp.
W. B. Roberts, G. K. C. Hardesty.
- R-1559 Development and Test of Gas-
U
10/39 Tight Transmission Line
Terminals. H. Granger.
PB120447, Mi\$2.40, Ph\$3.30.
- R-1560 Dogardite as a Water Proofing
U
10/39 Compound for Radio Frequency
Coils. R. B. Owens.
- M-1561 The Use of Chaplets in Steel
U
10/39 Castings, I. H. F. Taylor,
I. R. Kramer, A. R. Donaldson.
- R-1562 Test of 750 Volt DC Voltmeter
U
10/39 with Wax-Filled Multiplier Com-
partment, submitted by Weston
Electrical Instrument Corp.
R. B. Owens.
- P-1563 The Examination of Experimental
U
10/39 Alcohol-Gasoline Blends.
D. Fore, Jr., R. W. Bost.
PB120448, Mi\$2.70, Ph\$4.80.
- R-1564 The Medium Frequency Adcock
U
10/39 Direction Finder and a Resist-
ance Goniometer.
M. K. Goldstein.
- R-1565 Test of Thermometers and
U
10/39 Thermostats, submitted by the
Philadelphia Thermometer Co.
R. B. Owens.
PB123254, Mi\$2.40, Ph\$3.30.
- B-1566 Qualification Test on Contact
U
10/39 Maker, Type L, Class I, sub-
mitted by Henschel Corp.
J. S. Bryant, W. B. Roberts.
- R-1567 Test of Resubmitted Model XTBK-
U
10/39 8 Radio Transmitting Equipment,
submitted by RCA. R. B. Meyer,
J. D. Wallace, O. C. Dresser.
- P-1568 Chemical Oxygen Sources for
U
11/39 Submarine Air Purification, III.
R. R. Miller, W. C. Lanning.
- M-1569 Research of the Weldability of
U
11/39 Iron Alloys: Comparison of V-
Notched and Tee-Bend Test
Specimens.
C. E. Jackson, E. A. Rominski.
PB123255, Mi\$2.70, Ph\$4.80.
- H-1570 Turret Gun Girder Stresses.
U
11/39 H. B. Maris.
PB120393, Mi\$1.80, Ph\$1.80.
- R-1571 Tests of Model XRG and XRAP
U
11/39 Aircraft Radio Transmitting and
Receiving Equipment.
G. C. Schleiter, J. J. MacGregor,
M. D. Rocco.
- B-1572 Test of General Alarm Contact
U
11/39 Maker, Type K, Class 1, 115
Volts, d-c, submitted by Bendix
Aviation Corp.
J. R. Coomes, W. B. Roberts.
- P-1573 The Solubility of Water in Hydro-
U
11/39 carbons and Gasolines.
J. I. Burtie.
PB123256, Mi\$2.70, Ph\$4.80.
- R-1574 A Study of the Operating Char-
U
11/39 acteristics of Shipboard Trunk
and Antenna Systems at Inter-
mediate Frequencies.
O. Norgorden.
- R-1575 Observation of Night Effects on
U
11/39 Model CXS Radio Direction
Finder Below 100 Kcs.
R. A. Gordon, M. H. Schrenk.
PB120394, Mi\$2.70, Ph\$4.80.
- M-1576 Welding Test 182.
U
11/39 C. E. Jackson, E. A. Rominski.
PB123257, Mi\$2.40, Ph\$3.30.
- M-1577 X-Ray and Age-Hardening
U
11/39 Studies on Certain Iron-Cobalt-
Chromium Alloys.
H. F. Kaiser, I. R. Kramer.
PB122660, Mi\$2.70, Ph\$4.80.
- P-1578 The Preparation and Properties
U
12/39 of Solidified Gasoline, III.
D. Fore, Jr.
PB120395, Mi\$2.40, Ph\$3.30.
- B-1579 Test of Motors, Indicator, Navy
U
12/39 Type "N," submitted by Bendix
Aviation Corp. J. R. Coomes,
G. K. C. Hardesty, W. B. Roberts.
- B-1580 Test of Thermostats, Mercurial
U
12/39 Type, submitted by Philadelphia
Thermometer Co.
W. E. Whybrew, W. B. Roberts.
- R-1581 Test of Model XRAS Radio
U
12/39 Receiving Equipment.
J. E. Gough.
- S-1582 Equipment and Procedure for
U
12/39 Standardized Projector Per-
formance Tests.
E. Klein, P. N. Arnold.

- B-1583 Test of Wind Intensity and Direction Indicating Equipment, submitted by Henschel Corp. J. R. Coomes, J. S. Bryant, G. K. C. Hardesty, W. B. Roberts. PB123258, Mi\$2.40, Ph\$3.30.
- B-1584 Test of Contact Makers, Type L, Class 1, and Type N Class 1, (Remote Switching), submitted by Viking Instruments, Inc. G. K. C. Hardesty, W. B. Roberts. 1/40
- H-1585 Naval Camouflage. U E. O. Hulburt, C. Bittinger, 1/40
- P-1586 The Absorption of Chlorine by Lithium Hydroxide. U J. C. White, C. W. Balch. 1/40
- B-1587 Test of Transmitter-Generators, Navy Types "A" and "B," Indicator-Motors, Navy Types "M" and "N," submitted by Henschel Corp. J. R. Coomes, G. K. C. Hardesty, W. B. Roberts. 1/40
- B-1587A Test of Indicator Motors, Navy Type "N," submitted by Henschel Corp. U E. O. Donaldson, G. K. C. Hardesty. 7/40
- R-1588 Test of Westinghouse 5 Kilovolt Voltmeter Multiplier Resistor. U R. B. Owens. 1/40
- M-1589 Low Expansion Alloys for Main Steam Lines. I. R. Kramer, 1/40 PB123244, Mi\$3.90, Ph\$10.80.
- M-1590 Synthetic Steel Molding Sands. U R. E. Morey. 2/40 PB123245, Mi\$2.70, Ph\$4.80.
- O-1591 Light Armor, VI. The Dynamics of Armor Penetration by Small Projectiles. U G. R. Irwin, G. D. Kinzer. 2/40 PB123308, Mi\$1.50, Ph\$4.00.
- R-1592 Test of Stupakoff #352 Ceramic Insulating Material. U R. B. Owens. 2/40
- P-1593 Some Paint Compositions Applicable to Camouflage of Fleet Aircraft. U A. L. Alexander, P. King. 2/40 PB123314, Mi\$2.70, Ph\$4.80.
- R-1594 Test of Mycalex, submitted by the Mycalex Corp. of America. U R. B. Owens. 2/40
- P-1595 The Spreading Characteristics of Lubricating Oils, Part I. The Effects Due to the Pressure of Saturated and Unsaturated Aliphatic Acids. W. A. Zisman. U PB123313, Mi\$3.00, Ph\$6.30.
- R-1596 Test of Radiomarine Corp. of America Receiver AR-8503-Ser. #3922. D. McClenon. U 2/40
- R-1597 Test of Model TC 67 (T105) Aircraft Radio Transmitting Equipment. J. J. MacGregor. U 3/40 PB122806, Mi\$2.70, Ph\$4.80.
- H-1598 Tests at Sea of February 1940 in the Key West Area of the Visibility of Submarines and Transparency Measurements of Navigable Waters. U E. O. Hulburt. 3/40
- R-1599 Test of Model XTBU Radio Transmitting Equipment, submitted by Westinghouse. U C. B. Davis, G. J. Butler, R. B. Meyer. 3/40
- O-1600 Light Armor, VII, Light Armor at High Obliquities, Oblique Shields, and the Use of Duralumin for Armor Protection. U G. R. Irwin, R. A. Webster. 3/40
- M-1601 Embrittlement of Steel by Superheated Steam, Preliminary Report. R. H. Cowen. U 3/40 PB123312, Mi\$2.40, Ph\$3.30.
- H-1602 The Attenuation of Light by Smoke Screens. U J. A. Sanderson, R. L. Tuve. 3/40 PB120396, Mi\$2.70, Ph\$4.80.
- R-1603 A Study of Shipboard Antenna-Trunk Systems. O. Norgorden. U 3/40 PB122809, Mi\$3.30, Ph\$7.80.
- R-1604 Test of Model XTBW Transmitting Equipment, submitted by Westinghouse. F. C. Kahler, D. J. Burke, J. D. Wallace. U 4/40
- O-1605 Magnetic Search Coil Explorations and Ball-Punch Hardness Measurements for Bain Steel Piping. I. Vigness. U 4/40 PB123311, Mi\$3.00, Ph\$6.30.
- R-1606 Calibration Analyses of First Naval District Shore D/F Stations. U M. K. Goldstein. 4/40
- B-1607 Test of "SAL" Electric Log, submitted by Bendix Aviation Corp. U 4/40 J. R. Coomes, G. K. C. Hardesty.
- P-1608 Methods for the Determination of Chlorides in Battery Water. U J. C. White. 4/40
- M-1609 The Use of Chaplets in Steel Castings. II. H. F. Taylor, E. A. Rominski, A. R. Donaldson. U 4/40 PB123310, Mi\$2.70, Ph\$4.80.
- S-1610 Comparative Tests of QC, JK and JL Listening Gear on the USS SEALION. E. B. Stephenson. U 4/40
- B-1611 Test of Contact Maker, Type N, Class 1 (Local Switching), submitted by Clark Cooper Co. U 4/40 F. H. Dunlap.
- P-1612 Oxygen Sources, IV. Chemical Compounds as a Source of Oxygen for Aviation. U 5/40 R. R. Miller, F. S. Thomas. PB120504, Mi\$2.70, Ph\$4.80.
- R-1613 Test of Model XDZ Radio Direction Finder Equipment. U 5/40 R. A. Gordon, K. M. Soukaras.
- R-1614 Test of Speech Input Equipment Model TBL-4 Transmitter (re-submitted Model), submitted by RCA. D. J. Burke, F. C. Kahler, J. D. Wallace. U 5/40
- H-1615 The Transmission of Light by Fog. J. A. Sanderson. U 5/40 PB120503, Mi\$2.40, Ph\$3.30.
- R-1616 Test of Model XRAT Aircraft Receiving Equipment, submitted by Aircraft Radio Corp. U 5/40 J. J. MacGregor.
- R-1617 Test of Model XTBW Radio Receiving Equipment. U 5/40 D. H. Beegle, D. McClenon.
- S-1618 The Performance of an Electric-Acoustic SC Tube. U 5/40 P. N. Arnold, L. M. Treitel.
- P-1619 Chemical Oxygen Sources for Submarine Air Purification, V. U 5/40 R. R. Miller, W. C. Lanning. PB120422, Mi\$2.40, Ph\$3.30.
- R-1620 Investigation of the Frequency Response Characteristic of the CTE 49016 Telephones. U 5/40 J. F. Lee, Jr.
- P-1621 The Spreading Characteristics of Lubricating Oils. Part 2, Effects Due to the Presence of Alcohols, Phenols, Acids, Ketones & Esters. W. Zisman. U 5/40 PB109453, Mi\$2.00, Ph\$3.75.
- P-1622 Compounded Rubbers and Rubber-Like Materials for Linings in Gasoline Tanks. U 5/40 D. Fore, Jr. PB120597, Mi\$2.40, Ph\$3.30.
- H-1623 Signalling with Pulses of Light. U 6/40 J. Sweer, E. O. Hulburt.
- P-1624 The Storage Stability of High-Test Leaded Aviation Gasoline in Commercial Metal Drums and Tinned Containers. U 6/40 D. Fore, Jr. PB120423, Mi\$2.70, Ph\$4.80.
- B-1625 Test of Condensers for Sound Powered Telephones, submitted by Control Instruments Co. U 6/40 F. H. Dunlap, Sr.
- R-1626 Test of Effectiveness of Shielding of Models RAA-1, RAB and RAG Radio Receivers, Against Strong Local Fields from Transmitters. U 6/40 J. E. Gough. PB120398, Mi\$2.70, Ph\$4.80.

Numerical Index

B-1627 - B-1668

- B-1627 Test of Horn, Navy Type H-1,
U
6/40 submitted by Navy Yard, Ports-
mouth, N.H. J. S. Bryant.
- R-1628 Test of Preliminary Model XDU-
U
6/40 1 Radio Direction Finder Equip-
ment, submitted by Bendix Radio
Corp. R. A. Gordon.
- R-1629 Test of Model GO-4 Transmitting
U
7/40 Equipment. R. A. Gordon,
E. N. Zettle.
PB120399, Mi\$6.90, Ph\$21.30.
- R-1630 Performance Characteristics of
U
6/40 Models REA & RFA Radio Equip-
ments. S. A. Greenleaf.
- B-1631 Test of Electric Log Equipment,
U
7/40 Submarine Rotary Balance Type,
submitted by Pitometer Log
Corp. J. R. Coomes,
J. S. Bryant, G. K. C. Hardesty.
- P-1632 Oxygen Pressure Apparatus for
U
7/40 Filling Service Cylinders for
Aviators from Decomposed
Oxygen Bearing Materials, VI.
W. C. Lanning, R. R. Miller.
PB120457, Mi\$2.40, Ph\$3.30.
- M-1633 Nickel-Beryllium Alloys.
U
7/40 F. M. Walters.
PB114796, Mi\$2.00, Ph\$2.75.
- R-1634 Test of Model XTAJ-8 Trans-
U
7/40 mitting Equipment, submitted by
Bendix Radio Corp. C. B. Davis,
O. C. Dresser, R. B. Meyer.
PB120076, Mi\$7.50, Ph\$24.30.
- R-1635 Test of Wire Wound Resistors,
U
7/40 submitted by Ohmite Mfg. Co.
W. B. Burgess.
- R-1636 Test on Antenna Loop Position
U
8/40 Unit, submitted by W. L. Maxson
Corp. K. M. Soukaras.
- R-1637 Test of Resubmitted Model
U
8/40 XTBL-4 Radio Transmitting
Equipment, submitted by RCA.
D. J. Burke, F. C. Kahler,
J. D. Wallace.
- R-1638 Radiation Characteristics of
U
8/40 Vertical Antennas with Slanting
Top Sections at Intermediate
Frequencies. O. Norgorden.
PB123290, Mi\$3.30, Ph\$7.80.
- B-1639 Master Indicator-Transmitter,
U
8/40 Type MIT-7, for Propeller Shaft
Revolution Indicating Equipment,
submitted by Elec. Tachometer
Corp. J. R. Coomes, J. S. Bryant.
- P-1640 Spreading Characteristics of
U
8/40 Lubricating Oil, Part III.
1. The Effects Due to the Pres-
ence of Amines, Aromatic Acids
and Miscellaneous Compounds.
2. The Stability of Colored Oil
Films. W. Zisman.
PB23120, Mi\$5.50, Ph\$2.00.
- M-1641 A Carbon Train for Control
U
8/40 Analysis. L. Singer,
H. J. Stark, J. A. Krynskiy.
- M-1642 Research on the Weldability of Iron
U
8/40 Alloys; A Comparison of Tests
for Weldability of 2G Low-Carbon
Steels.
C. E. Jackson, G. G. Luther.
PB100415, Mi\$2.75, Ph\$8.75.
- B-1643 Test of Horns, Navy Type H-8,
U
8/40 submitted by Heinze Elec. Corp.
F. H. Dunlap.
- H-1644 Photoelastic Studies of Stresses
U
8/40 in Aircraft Carrier Bents.
H. B. Maris.
PB123293, Mi\$3.30, Ph\$7.80.
- B-1645 Test of Horns, Types H-8 and
U
8/40 H-9, submitted by Clark Cooper
Co. F. H. Dunlap.
PB123292, Mi\$2.40, Ph\$3.30.
- R-1646 Test of Wire Wound Resistors,
U
8/40 submitted by Hardwick, Hindle,
Inc. W. B. Burgess.
PB123318, Mi\$2.40, Ph\$3.30.
- B-1647 Test of Resonated Horn, Type H-3,
U
8/40 submitted by Bendix Aviation
Corp., Marine Division.
F. H. Dunlap.
- R-1648 Modulator Unit for Model TBM-5
U
9/40 Transmitter as Used with Model
TBK-9 Transmitter, submitted
by Westinghouse.
H. R. Johannessen, F. C. Kahler,
J. D. Wallace.
- R-1649 Test of Thermostats and Relays,
U
8/40 submitted by Philadelphia
Thermometer Co. W. E. Bower.
- M-1650 The Causes for Porosity and
U
8/40 Leakage in Non-Ferrous Cast-
ings. A. H. Hesse.
PB123316, Mi\$3.00, Ph\$6.30.
- B-1651 Test of Horns, Types H-8 and
U
9/40 H-9, submitted by Benjamin
Elec. Mfg. Co. F. H. Dunlap.
- R-1652 Measurement of Transmission
U
9/40 Characteristics of Shipboard
Antenna Systems.
M. L. Leppert, O. Norgorden.
PB120400, Mi\$3.30, Ph\$7.80.
- M-1653 The Accuracy of the Gamma-
U
9/40 Radiography Experimental Slide
Rule: Specification of Film for
Gamma-Radiography.
H. F. Kaiser.
PB123299, Mi\$2.40, Ph\$3.30.
- B-1654 Test of Torpedo and Gun-Firing
U
9/40 Transformers, Type GF, 200, V.A.,
submitted by Control Instrument
Co. J. S. Bryant,
G. K. C. Hardesty.
- B-1655 Test of Sound Powered Throat
U
10/40 Microphones, submitted by Con-
trol Instrument Co. W. B. Roberts.
- O-1656 Magnetic Flaw Detector, I, Rotat-
U
10/40 ing Magnet Type of Flaw Detector.
J. Sweer.
PB123315, Mi\$2.70, Ph\$4.80.
- M-1657 The Fluidity of Cast Steel, Sum-
U
10/40 mary Report. H. F. Taylor,
E. A. Rominski, J. L. Darby.
PB123823, Mi\$5.40, Ph\$15.30.
- R-1658 Investigation of Antennas Systems
U
10/40 on USS SEADRAGON, USS
SEARAVEN, USS TAMBOR, USS
TRIPPE and USS MAYRANT.
O. Norgorden.
PB120401, Mi\$3.30, Ph\$7.80.
- R-1659 Development of a Continuously
U
10/40 Variable Single Crystal, Decade
Frequency, Oscillation Generator.
H. Granger.
- B-1660 Test of Wind Direction and
U
10/40 Intensity Indicating Equipment,
submitted by Julian P. Friez &
Sons, Inc. G. K. C. Hardesty,
A. R. Donaldson.
PB123249, Mi\$2.70, Ph\$4.80.
- R-1661 Test of Wire Wound Fixed
U
10/40 Resistors, submitted by Wirt &
Co. J. F. Lee.
PB123250, Mi\$2.40, Ph\$3.30.
- P-1662 The Investigation of Self-Sealing
U
10/40 Materials for Oil and Fuel Tanks.
D. Fore, Jr., C. Lamb.
- H-1663 Photoelastic Studies of Stresses
U
10/40 Around Openings in Deck Plates
Reinforced with Coming.
H. B. Maris, J. S. Brock.
PB123319, Mi\$2.40, Ph\$3.30.
- R-1664 Test of Collins Type 18M-5
U
10/40 Radio Equipment (Transmitter
Portion) Navy Model TCH
Equipment.
C. W. Christenson, J. D. Wallace.
- R-1665 Investigation of Model XTBU
U
10/40 Transmitter Operation Using
Representative Antennas.
M. L. Leppert.
- R-1666 Test of TBK-9 Transmitting
U
11/40 Equipment, submitted by
Westinghouse.
C. B. Davis.
- M-1667 Minimum Distance Requirements
U
11/40 in Gamma Radiography, I.
H. F. Kaiser, H. Friedman,
R. H. Hafner.
- B-1668 Test of Motor Boat Horns, Type
U
11/40 H-5a, submitted by Benjamin
Elec. Mfg. Co.
F. H. Dunlap.

- R-1669 The Submerged Reception of Radio Frequency Signals. U 12/40 O. Norgorden. PB123320, Mi\$3.30, Ph\$7.80.
- S-1670 The Effect of Water Conditions on the Propagation of Supersonic Underwater Sound. U 12/40 E. B. Stephenson. PB123278, Mi\$3.00, Ph\$6.30.
- R-1671 Notes on the Calculation of Capacity of Intermediate Frequency Antennas. C. W. Christenson, O. Norgorden. PB123382, Mi\$3.00, Ph\$6.30.
- R-1672 Test of Western Electric Type 226C, 25 Watt Radio Telephone Equipment. U 12/40 T. McL. Davis, R. B. Meyer.
- R-1673 Test of Jefferson-Travis Model 250B, 25-Watt Radio Telephone Equipment. U 12/40 T. McL. Davis, R. B. Meyer.
- B-1674 Test of Motor Boat Horns, Type H5, submitted by Benjamin Elec. Mfg. Co. F. H. Dunlap. U 12/40
- R-1675 Tests on Model RAV Aircraft Receiving Equipment, submitted by Aircraft Radio Corp. J. J. MacGregor, E. N. Zettle. PB120402, Mi\$7.50, Ph\$24.30. U 12/40
- R-1676 Test of Radiomarine Type ET-8021 30 Watt Radio Telephone Equipment. U 12/40 T. McL. Davis, R. B. Meyer.
- H-1677 Photoelastic Investigation of Stresses in Deck Plating with Rectangular Openings Reinforced by Doublers. U 12/40 J. S. Brock, H. B. Maris.
- B-1678 Test of Horn, Type H-4, submitted by Federal Elec. Co. F. H. Dunlap. U 12/40
- B-1679 Test of Tachometer, Type B, Class A, submitted by Henry H. Sticht Co., Inc. J. S. Bryant. U 1/41
- P-1680 A Preliminary Study of Resins and Poisons to Determine Their Applicability to Anti-Fouling Compositions. A. L. Alexander, P. King, G. Mustin. PB109454, Mi\$2.50, Ph\$6.25. U 1/41
- B-1681 Test of Navy Type H-1 Horns, submitted by Benjamin Elec. Mfg. Co. F. H. Dunlap. U 1/41
- B-1682 Test of Horns Navy Type H-3, submitted by Federal Elec. Co. F. H. Dunlap. U 1/41
- O-1683 Magnetic Flaw Detector, II, Stationary Pickup, Eddy Current Detector. I. Vigness, R. Gann, PB98796, Mi\$2.00, Ph\$3.75. U 1/41
- O-1684 Scale Model Tests for High Pressure, High Temperature Steam Piping. I. I. Vigness. U 1/41
- R-1685 Comparison Report on Tests of Western Elec. Type 226C, Radiomarine Type ET-8021, Jefferson-Travis Model 250B, Commercial Radio Telephone Equipments. R. B. Meyer, T. McL. Davis. U 1/41
- P-1686 The Use of Metallic Powders for Surface Sea Markers. U 1/41 W. A. Zisman, D. L. Pickett. PB78600, Mi\$1.00, Ph\$1.00.
- R-1687 Test of Model ZB Homing Adapter, submitted by Graybar Electric Co. R. A. Gordon. U 1/41
- R-1688 Not Issued, Superseded by R-1718. U 1/41
- P-1689 The Identification of Anti-Aircraft Projectile Bursts. I. U 1/41 R. L. Tuve.
- R-1690 Tests of Model RUH Ultra-High Frequency Receiving Equipment, submitted by Radio Receptor Co., Inc. S. Riccobono. U 1/41
- P-1691 Oxygen Source Material, VII, Absorption of Carbon Dioxide and Liberation of Oxygen from Alkali Oxides on the Sub. USS S-30. R. R. Miller, W. C. Lanning. U 2/41
- H-1692 Metallic Fluoride Films of Low Reflectivity. J. A. Sanderson. U 2/41
- R-1693 Test of Isolantite Nos. 100 and 200, submitted by Isolantite, Inc. W. E. Bower. U 2/41
- R-1694 Test of Model 500D Radio Telephone Equipment (50 Watts), submitted by Jefferson-Travis Co. T. McL. Davis, R. B. Meyer. PB122810, Mi\$5.70, Ph\$16.80. U 2/41
- P-1695 The Relation of Water from Humid Atmospheres on the Corrosive Action of Foreign Deposits on Aluminum and Its Alloys. T. P. May. PB123300, Mi\$2.70, Ph\$4.80. U 2/41
- R-1696 Test of Collins Type, 18M-5 Radio Equipment (Receiver Portion) - Navy Model TCH Equipment, submitted by Collins Radio Co. F. C. Isely. U 2/41
- B-1697 Test of Underwater Electric Log Equipment, submitted by Bendix Aviation Corp. G. K. C. Hardesty, A. R. Donaldson. U 2/41
- M-1698 Studies of Grid Alloys for Submarine Storage Batteries. H. F. Taylor. PB120419, Mi\$2.70, Ph\$4.80. U 2/41
- P-1699 Self-Sealing Materials for Lubricating Oil Tanks of Military Aircraft. C. M. Murphy, Jr., D. Fore, Jr. U 2/41
- R-1700 Test on Radiomarine Type ET 8012-B 75 Watt Radio Telephone Equipment. U 2/41 S. H. Liebson, C. B. Davis.
- P-1701 Oxygen Source Material, IX, - Properties and Reactions of the Alkali Oxides. U 2/41 W. C. Lanning, R. R. Miller. PB78603, Mi\$1.00, Ph\$2.00.
- P-1702 Oxygen Source Compounds, VIII, Laboratory and Canister Tests on Alkali Oxides. U 2/41 E. A. Ramskill, D. Burgess. PB78593, Mi\$2.00, Ph\$5.00.
- P-1703 The Naval Research Laboratory Dissolved Oxygen Indicator for Continuous Analysis of Boiler Feedwaters. U 3/41 J. C. White, R. L. Tuve. PB123301, Mi\$3.90, Ph\$10.80.
- B-1704 Test of Ships Fog Horn, Navy Type H-7, submitted by Clark Cooper Co. F. H. Dunlap. U 3/41
- M-1705 Synthetically Bonded Steel Molding Sands. U 3/41 H. F. Taylor, R. E. Morey. PB123302, Mi\$3.60, Ph\$9.30.
- O-1706 Propeller Shaft Torque Fluctuations on the U. S. Tug WAHTAH, Part I. W. C. Hall. U 3/41 PB123303, Mi\$3.30, Ph\$7.80.
- R-1707 Investigation of Self-Supporting Telescopic Vertical Antenna for Use on Battleships 55 & 56. U 3/41 C. Christenson, O. Norgorden. PB120420, Mi\$3.00, Ph\$6.30.
- M-1708 The Austempering of STS Armor Plates. B. M. Loring. U 3/41 PB123304, Mi\$2.70, Ph\$4.80.
- R-1709 Tests of Model XRAX Patrol Plane Radio Receiving Equipment, submitted by General Electric Co. J. J. MacGregor, E. N. Zettle. PB16902, Mi\$1.50, Ph\$8.00. U 3/41
- R-1710 Test of Model GO-7 Transmitting Equipment. R. A. Gordon, K. L. Huntley, E. N. Zettle. U 3/41
- M-1711 Radiographic Tests on XF4U-1 Engine Mount, SAE 4340 Steel. U 3/41 H. F. Kaiser, R. H. Baber. PB123305, Mi\$2.40, Ph\$3.30.
- M-1712 Studies on Lead Marking in Radiographic Films and Its Prevention. H. F. Kaiser, H. Friedman, R. H. Baber. U 3/41

Numerical Index

B-1713 - R-1755

- B-1713 Test of Resonated Horn, Navy Type H-3, submitted by Bendix Aviation Corp. F. H. Dunlap. 3/41
- R-1714 Keying Characteristics of Station NSS. J. M. Miller. 4/41 PB123269, Mi\$2.40, Ph\$3.30.
- B-1715 Test of Bell, Watertight, 115 Volts, Direct Current, submitted by Edwards & Co., Inc. F. H. Dunlap. 3/41
- B-1716 Test of Navy Type H-5a Horn, submitted by Federal Elec. Co. F. H. Dunlap. 4/41
- R-1717 Test of Underwater Reception of Low Frequency Radio Signals. F. C. Isely. 4/41 PB120421, Mi\$3.30, Ph\$7.80.
- R-1718 Test on AN Connectors. S. Riccobono. 4/41 PB123306, Mi\$2.70, Ph\$4.80.
- P-1719 The Storage Characteristics and Stability of Safety Fuels (Preliminary Report). C. Lamb, G. M. Gantz, D. Fore, Jr. PB123307, Mi\$2.40, Ph\$3.30.
- P-1720 The Solubility of Gums in Hydrocarbons at Temperatures Ranging from -22° F to 110° F. B. Berger. 4/41
- H-1721 Flexible Rollers and Flexible Roller Path for Main Battery Turrets. H. B. Maris. 4/41 PB123306, Mi\$2.70, Ph\$4.80.
- S-1722 The Velocity of Sound in Sea Water. E. B. Stephenson, F. J. Woodsmall. 4/41 PB17567, Mi\$.50, Ph\$1.00.
- H-1723 A Photoelastic Analysis of the Stresses in Fatigue Test Specimens. J. S. Brock, H. B. Maris. 4/41 PB120512, Mi\$3.00, Ph\$6.30.
- R-1724 Test of 50 Watt Radio Telephone Equipment, submitted by Communications, Inc. S. H. Liebson, C. B. Davis. 4/41 PB16900, Mi\$1.50, Ph\$8.00.
- B-1725 Test of Condensers, 0.45 mfd., submitted by Julian P. Friez & Sons. F. H. Dunlap. 4/41
- R-1726 Test of Lucite Loops. R. A. Gordon. 4/41 PB120594, Mi\$2.70, Ph\$4.80.
- R-1727 Test of Model XTBT Transmitting Equipment, submitted by RCA. L. Schlesinger, M. L. Leppert. 4/41 PB16901, Mi\$2.00, Ph\$19.00.
- R-1728 Type XAO and XAQ Superfrequency Transmitting Equipment. J. P. Hagen. 5/41 PB16903, Mi\$.50, Ph\$4.00.
- R-1729 Test of Insulating Material #408, submitted by Stupakoff Ceramic & Mfg. Co. W. E. Bower. 4/41
- R-1730 Test of Model XTBT Speaker-Amplifier Unit. L. T. Bourland, M. F. Davis, T. A. Veilleux. 5/41 PB16904, Mi\$.50, Ph\$2.00.
- M-1731 The Development, Operation and Foundary Application of the Spiral Fluidity Mold for Measuring the Fluidity of Cast Steel. H. F. Taylor, E. A. Rominski. 5/41 PB120513, Mi\$2.40, Ph\$3.30.
- R-1732 Test of Insulating Material E-1499, submitted by Westinghouse Electric and Mfg. Co. W. E. Bower. 5/41 PB120511, Mi\$1.80, Ph\$1.80.
- R-1733 Test of Steatite, Body 2484, submitted by General Ceramic Co. W. E. Bower. 5/41
- R-1734 Notes on the Analysis and Measurement of Intermediate Frequency Shipboard Antenna Systems. O. Norgorden. 5/41 PB120686, Mi\$4.50, Ph\$12.30.
- B-1735 Test of Synchronous Motors, Capacitor Type, Mfg. by the Holtzer Cabot Elect. Co., submitted by the Electric Tachometer Corp. G. K. C. Hardesty. 5/41
- R-1736 Test of Type RA-46125 Experimental Models of Superfrequency Radio Receivers for Single and Double Modulation (A Part of Model XAP Equipment). G. E. Pray. 6/41 PB16880, Mi\$.50, Ph\$4.00.
- R-1737 Development of Type RA-46125 Experimental Models of Superfrequency Radio Receivers for Single and Double Modulation (A Part of Model XAP Equipment). G. E. Pray. 5/41
- R-1738 Test of Model XRAQ Radio Receiving Equipment. L. T. Bourland, M. F. Davis, T. A. Veilleux. 6/41 PB16889, Mi\$1.50, Ph\$8.00.
- R-1739 Tests of Model CXAR Aircraft Radio Transmitting Equipment, submitted by Bendix Radio Corp. R. A. Gordon, J. J. MacGregor. 5/41 PB16890, Mi\$1.00, Ph\$5.00.
- P-1740 A Study of Organic Coatings for the Camouflage of Fleet Aircraft. A. L. Alexander, P. King, G. Mustin. 5/41 PB120687, Mi\$3.60, Ph\$9.30.
- P-1741 The Characteristics of Benzol Blends and Aromatic Gasolines. D. Fore, Jr., G. M. Gantz. 5/41 PB122661, Mi\$1.80, Ph\$1.80.
- B-1742 Test of Navy Type H-5 Horn, submitted by Federal Elec. Co. F. H. Dunlap. 5/41
- B-1743 Test of Navy Type H-3 Horn, submitted by Federal Elec. Co. F. H. Dunlap. 5/41
- P-1744 The Preparation of Uranium Hexafluoride. R. R. Miller, W. C. Lanning, T. D. O'Brien. 5/41 PB122682, Mi\$2.40, Ph\$3.30.
- O-1745 Light Armor, VIII, The Performance of Bullet-Proof Steel and Aluminum Alloys Against Small Caliber AP Bullets and the Effect Upon Plate Performance of Bullet Fracture and Obliquity. G. R. Irwin, C. H. Kingsbury. 5/41
- R-1746 A Study of the Coupling Between Two Conductors in a Common Trunk at the Intermediate Frequencies. C. Christenson, O. Norgorden. 5/41 PB16891, Mi\$.50, Ph\$4.00.
- M-1747 Welding and Properties of Welded Tubing of the SAE X4130 Composition. C. E. Jackson, G. G. Luther, M. A. Pugacz. 6/41 PB109455, Mi\$1.25, Ph\$1.25.
- R-1748 Test of Yardeny Remote Control System. D. H. Beegle, J. F. Thomason. 6/41 PB16892, Mi\$.50, Ph\$2.00.
- O-1749 Scale Model Tests for High-Pressure High-Temperature Steam Piping, II. I. Vigness. 6/41 PB122683, Mi\$3.30, Ph\$7.80.
- R-1750 Test of Radiomarine Type ET-8010-CA 200 Watt Radiotelegraph Equipment 350 to 500 kc, submitted by Radiomarine Corp. C. B. Davis. 6/41 PB16894, Mi\$1.00, Ph\$6.00.
- M-1751 Low Expansion Alloys (Summary Report). I. R. Kramer. 6/41 PB109516, Mi\$2.25, Ph\$5.00.
- R-1752 Test of Model 67A Radio Telephone Equipment, submitted by Communications Co., Inc. L. Schlesinger. 6/41 PB16893, Mi\$1.00, Ph\$5.00.
- R-1753 Tests of Model AVR-50 Aircraft Radio Receiving Equipment, submitted by RCA. R. A. Gordon, J. J. MacGregor. 6/41 PB16895, Mi\$1.50, Ph\$8.00.
- R-1754 Test of Insulating Material Type No. 302. W. E. Bower. 6/41
- R-1755 Tests of Directive Characteristics of Antenna Array of Model YE Homing Equipment. H. R. Johannessen, J. D. Wallace. 6/41 PB120571, Mi\$3.30, Ph\$7.80.

R-1756 - R-1798

Naval Research Laboratory

- R-1756 Tube Parameters vs Frequency in the Navy Type TBK Transmitter. U 6/41 R. R. Black.
- B-1757 Test of Underwater Electric Log Equipment, submitted by Bendix U 7/41 Aviation Corp. G. K. C. Hardesty, A. R. Donaldson.
- R-1758 Test of Radiomarine Type ET-8019, 200 Watt Radio Telegraph Equipment (4-22 Mc), submitted by Radiomarine Corp. M. F. Hodges, C. B. Davis. U 7/41 PB16896, Mi\$1.00, Ph\$5.00.
- O-1759 Torsional Characteristics of Propeller Shafts of USS NORTH CAROLINA. W. C. Hall. U 7/41 PB122684, Mi\$2.70, Ph\$4.80.
- O-1760 Propeller Shaft Torque Fluctuations on the U.S. Tug WAHTAH, II. W. C. Hall. U 7/41 PB120176, Mi\$2.40, Ph\$3.30.
- R-1761 Test of Model RAR Radio Receiving Equipment. L. T. Bourland, M. F. Davis, S. H. Liebson, T. A. Veilleux. U 2/42 PB16897, Mi\$1.00, Ph\$5.00.
- O-1762 Torsional Characteristics of Propeller Shafts of USS WASHINGTON. W. C. Hall. U 7/41 PB122685, Mi\$2.70, Ph\$4.80.
- M-1763 Preparation of Duplicate X-Ray Radiographs Using Calcium Tungstate Intensifying Screens. H. F. Kaiser, R. H. Hafner. U 7/41 PB122686, Mi\$2.40, Ph\$3.30.
- R-1764 Test of Model TCD Transmitting Equipment, submitted by General Electric Co. J. D. Foley, M. L. Leppert. U 7/41 PB16898, Mi\$1.50, Ph\$9.00.
- S-1765 Analysis of Ships' Propeller Sounds (Preliminary Report). U 7/41 H. C. Hayes.
- R-1766 Investigation of Resubmitted Model XTBU Transmitting Equipment. M. L. Leppert. U 8/41 PB16899, Mi\$1.50, Ph\$3.00.
- B-1767 Test of Horns, Types H-8 and H-9, submitted by Benjamin Elec. U 8/41 Mfg. Co. G. K. C. Hardesty.
- B-1768 Test of Air Horn, submitted by Westinghouse Air Brake Co. U 8/41 G. K. C. Hardesty, A. R. Donaldson.
- B-1769 Test of Air Horn, submitted by Kahlenberg Brothers Co. U 8/41 G. K. C. Hardesty, A. R. Donaldson. PB122687, Mi\$2.40, Ph\$3.30.
- M-1770 Research on the Weldability of Iron Alloys: Weldability Test of Nickel Steels. C. E. Jackson, G. G. Luther, M. A. Pugacz. U 8/41 PB109542, Mi\$3.50, Ph\$10.00.
- R-1771 Test of Westinghouse 3 and 5 Kilovolt Voltmeter Multiplier Resistors. R. T. Friebus. U 8/41 PB122737, Mi\$2.40, Ph\$3.30.
- R-1772 Test of Model YE Homing Transmitting Equipment, submitted by RCA. J. D. Foley, H. R. Johannessen, R. B. Meyer. U 8/41
- B-1773 Test of Navy Type H-5 Horn, submitted by EA Laboratories, Inc. U 8/41 F. H. Dunlap. PB122738, Mi\$2.40, Ph\$3.30.
- H-1774 Turret Gun Girder Stresses (Auxiliary Report). U 8/41 J. S. Brock, H. B. Maris. PB109543, Mi\$1.75, Ph\$2.50.
- B-1775 Test of Navy Type H-5 Horn, submitted by Sparks-Withington Co. U 8/41 F. H. Dunlap.
- S-1776 Analysis of Methods and Means of Anti-Submarine Attack. U 8/41 H. C. Hayes. PB120595, Mi\$2.70, Ph\$4.80.
- B-1777 Test of Horns, Short Projector, Types H-8 and H-9, submitted by Benjamin Electric Mfg. Co. U 8/41 F. H. Dunlap.
- O-1778 Light Armor. IX, Construction and Use of Pendulums for Small Plate Testing, Brinell Hardness Correlation with Ballistic Penetration Resistance, and the Effects of Physical Defects on Armor Performance. G. R. Irwin. U 9/41
- R-1779 Test of I.R.C. 3 and 5 Kilovolt Voltmeter Multiplier Resistors. U 9/41 R. T. Friebus.
- R-1780 Test of Weston 3 and 5 Kilovolt Voltmeter Multiplier Resistors. U 9/41 W. E. Bower.
- R-1781 Test of Two 3-Kilovolt Voltmeter Multiplier Resistors, submitted by Sprague Specialties Co. U 9/41 R. T. Friebus.
- B-1782 Test of Navy Types Z-1 and Z-2 Buzzers, submitted by Federal Electric Co. U 9/41 F. H. Dunlap.
- M-1783 The Use of Blink Heads in the Manufacture of Steel Castings. U 9/41 H. F. Taylor, E. A. Rominski. PB122749, Mi\$3.00, Ph\$6.30.
- P-1784 Storage Stability of Aviation Gasoline and the Stability of Storage Vessels. C. Rebbein, G. M. Gantz, C. Lamb, D. Fore, Jr. U 9/41 PB109544, Mi\$2.75, Ph\$7.50.
- M-1785 The Mechanical and Ballistic Properties of Iron-Manganese Alloys, I. I. R. Krammer, S. L. Toleman, B. M. Loring. U 9/41 PB120596, Mi\$2.40, Ph\$3.30.
- R-1786 Test of Six Wire Wound Fixed Resistors, submitted by Sprague Specialties Co. R. T. Friebus. U 9/41 PB122751, Mi\$2.40, Ph\$3.30.
- B-1787 Test of Horns, Navy Type H-1, submitted by Benjamin Electric Mfg. Co. U 9/41 F. H. Dunlap.
- H-1788 Seeing Stars in Daylight, I. R. Tousey. U 10/41 PB79461, Mi\$1.00, Ph\$2.00.
- R-1789 Test of Preselector Serial 4101 for Radiomarine Corp. of America Receiver AR-8503, Serial 4110. U 10/41 S. H. Liebson.
- B-1790 Test of Contact Maker, Type N (Local Switching), submitted by Viking Instr. Inc. U 10/41 J. R. Coomes, F. H. Dunlap. PB122750, Mi\$2.40, Ph\$3.30.
- B-1790-A Test of Contact Maker, Type N, Thermostatic, submitted by Viking Instr. Inc. U 4/42 C. H. Grogan, G. Pida. PB122752, Mi\$2.40, Ph\$3.30.
- R-1791 Test of Six Wire Wound Fixed Resistors, submitted by International Resistance Co. U 10/41 R. T. Friebus.
- O-1792 Eddy-Current Type Flaw Detectors, III, Tests of Spot-Weids in Aluminum Alloys. U 10/41 I. Vigness, J. E. Dinger.
- S-1793 Generation, Reception, and Properties of Damped Supersonic Waves. U 10/41 H. L. Saxton, H. M. Trent. PB120597, Mi\$2.40, Ph\$3.30.
- R-1794 Ship to Ship Pulse Recognition System. U 10/41 E. H. Krause, M. W. Rosen, Jr.
- B-1795 Test of Siren, Types S1, S2, S3, and S-4, submitted by Clark Cooper Co. U 10/41 F. H. Dunlap.
- R-1796 Investigation and Measurement of Radio Transmitting Antenna Systems on USS NORTH CAROLINA. C. Christenson, O. Norgorden. U 11/41 PB120675, Mi\$6.00, Ph\$18.30.
- R-1797 Cancelled.
- R-1798 Test of Model AVT-50 Transmitting Equipment. R. A. Gordon, J. J. MacGregor, J. M. Stainback. U 10/41 PB16878, Mi\$1.00, Ph\$6.00.

Numerical Index

M-1799 - R-1840

- M-1799 An Electrical Method for Rapid
U Inspection with X-Rays and
12/41 Gamma Rays.
H. Friedman, H. F. Kaiser.
- M-1800 Geiger Counter Technique.
U H. Friedman, H. F. Kaiser.
1/42 PB116535, Mi\$3.75, Ph\$11.50.
- M-1801 Exposure Meters for X-Ray and
U Gamma Ray Radiography.
12/41 H. Friedman, A. L. Christenson.
PB109852, Mi\$2.00, Ph\$3.75.
- S-1802 The Development and Testing of
U Bomb Whistles. W. Wathen-Dunn.
11/41 PB120598, Mi\$2.70, Ph\$4.80.
- S-1803 A Theoretical Study of the Speed
U of Fall of Depth Charges in Water.
11/41 J. M. Ide, M. F. M. Osborne.
PB120676, Mi\$2.70, Ph\$4.80.
- P-1804 Marking Devices for the Rescue
U of Personnel Forced Down at Sea:
11/41 Metallic Powders and Dyes.
R. L. Tuve, W. A. Zisman,
D. L. Pickett.
PB122672, Mi\$2.40, Ph\$3.30.
- P-1805 Method of Test for Deep Drying
U Insulating Varnishes.
11/41 M. A. Elliott.
PB122673, Mi\$3.30, Ph\$7.80.
- O-1806 Torque and Power Measurements
U on the Propeller Shafts of the
11/41 USS DAHLGREN. W. C. Hall.
PB122674, Mi\$4.80, Ph\$13.80.
- R-1807 Comparative Consideration of
U Performance Characteristics of
11/41 Existing Ultra-High Frequency
Radio Receivers.
S. H. Liebson.
PB120677, Mi\$2.40, Ph\$3.30.
- R-1808 Development of a Surge Genera-
U tor for Determining Receiver
11/41 Recovery Time Constant from
Surge Inputs.
F. C. Isely, W. C. Whitmer.
PB120587, Mi\$2.70, Ph\$4.80.
- B-1809 Test of Blown Fuse Transformers,
U submitted by Bendix Aviation
11/41 Corp. C. H. Grogan, G. Pida.
- B-1810 Test of Bell, Navy Type B-4,
U submitted by Edwards and
11/41 Company, Inc. F. H. Dunlap.
- R-1811 Test of Six Wire Wound Fixed
U Resistors, submitted by Ward
11/41 Leonard Elec. Co.
R. T. Friebus.
PB122675, Mi\$2.40, Ph\$3.30.
- R-1812 Test of Six Wire Wound Fixed Re-
U sistors, submitted by Utah Radio
11/41 Products Co. R. T. Friebus.
PB122742, Mi\$2.40, Ph\$3.30.
- B-1813 Test of Copper-Oxide Battery
U Charger, submitted by General
11/41 Electric Co. F. H. Dunlap.
- R-1814 Test of Six Wire Wound Fixed Re-
U sistors, submitted by Sprague
11/41 Specialties Co. R. T. Friebus.
PB122676, Mi\$2.40, Ph\$3.30.
- P-1815 Progress in the Study of Anti-
U Fouling Compositions for the Pro-
11/41 tection of Flying Boat Hull
Bottoms. A. L. Alexander,
P. King, G. Mustin.
PB122677, Mi\$5.70, Ph\$16.80.
- H-1816 Test on the Use of Plastic Models
U in Elastic Studies: A Study of the
11/41 Aircraft Carrier Bent Models.
H. B. Maris, J. S. Brock.
PB122678, Mi\$3.00, Ph\$6.30.
- R-1817 Test of Six Wire Wound Fixed Re-
U sistors, submitted by Sprague
12/41 Specialties Co. R. T. Friebus.
PB120505, Mi\$2.40, Ph\$3.30.
- R-1818 Test of Insulating Material #792,
U submitted by Corning Glass
12/41 Works. W. E. Bower.
PB120507, Mi\$1.80, Ph\$1.80.
- R-1819 Development of a Switch and
U Method for AVC Measurements.
12/41 F. C. Isely, W. C. Whitmer.
PB120509, Mi\$2.40, Ph\$3.30.
- P-1820 The Evaluation of Six Experi-
U mental Anti-Fouling Coatings,
12/41 submitted by the Goodyear Tire
and Rubber Co. A. L.
Alexander, P. King, G. Mustin.
PB120510, Mi\$2.70, Ph\$4.80.
- M-1821 Low Carbon Iron Alloys.
U F. M. Walters, Jr., I. R. Kramer,
12/41 S. L. Toleman.
PB122689, Mi\$2.70, Ph\$4.80.
- M-1822 Chromizing of Steels. I. R.
U Kramer, R. H. Hafner, Jr.
12/41 PB122690, Mi\$2.70, Ph\$4.80.
- B-1823 Test of Indicator Motors, Type
U "N," submitted by Henschel Corp.
12/41 C. H. Grogan, G. Pida.
- R-1824 7/8" O. D. Coaxial Ceramic
U Insulated Transmission Line
12/41 and Fittings. L. G. Robbins,
O. Norgorden.
PB122691, Mi\$4.80, Ph\$13.80.
- H-1825 Daylight Observation of Stars
U and Planets, II, Some Optical
12/41 Details. R. Tousey.
- R-1826 Hallicrafter Model S27 Receiver.
U S. H. Liebson, K. L. Mengle.
12/41 PB16884, Mi\$1.00, Ph\$6.00.
- R-1827 Test of Federal Telegraph
U Company Model 128A Receiver
12/41 #41625. S. H. Liebson.
PB122692, Mi\$4.50, Ph\$12.30.
- M-1828 Use of Lead Filters in X-Ray
U Radiography of Steel Sections in
12/41 the Range 100-220 Kv, I, Study
of Effective Ranges. H. F.
Kaiser, A. L. Christenson,
R. H. Hafner.
PB122730, Mi\$3.80, Ph\$9.30.
- O-1829 Scale Model Tests for High-
U Pressure, High-Temperature
12/41 Steam Piping, III. I. Vigness,
T. E. Pardue.
PB122731, Mi\$3.30, Ph\$7.80.
- B-1830 Test of Tachometer, Type B,
U Class b, submitted by Corbin
1/42 Screw Corp. J. S. Bryant.
- C-1831 Method of Determination of the
U Penetration of H S Vapor through
1/42 Protective Clothing. C. W.
Lanning, G. M. Gantz,
W. H. Taylor.
- B-1832 Test of Horns, Short Projector,
U Types H-8 and H-9, submitted
1/42 by Benjamin Electric Manu-
facturing Company. F. H. Dunlap.
- B-1833 Test of Thermostats, Mercurial
U Type, submitted by Electric
1/42 Glass Co. G. Pida, C. H. Grogan.
- R-1834 Test of Type AR88 Receiving
U Equipment, submitted by RCA.
1/42 S. H. Liebson.
PB16879, Mi\$1.00, Ph\$6.00.
- M-1835 The Mechanical Properties of
U Manganese-Copper Alloys
1/42 (Vibration Damping Capacity and
Electrical Resistance). A. H.
Hesse, E. T. Myskowski.
PB122732, Mi\$2.70, Ph\$4.80.
- R-1836 Test of Model TBL-5 Radio
U Transmitting Equipment, submit-
1/42 ted by Westinghouse Electric and
Manufacturing Co. T. D. Hobart,
J. D. Foley, C. B. Davis.
PB16881, Mi\$3.00, Ph\$21.00.
- O-1837 Eddy Current Type Flaw Detec-
U tors, IV. I. Vigness,
1/42 J. E. Dinger.
- R-1838 Test of Six Wire Wound Fixed
U Resistors, submitted by Sprague
1/42 Specialties Co. H. A. Brinkman.
PB122734, Mi\$2.40, Ph\$3.30.
- R-1839 Test of Type P-540 Radio Re-
U ceiving Equipment, submitted by
1/42 General Radio Co. L. T.
Bourland, F. C. Isely, S. H.
Liebson, W. C. Whitmer.
PB16885, Mi\$1.50, Ph\$3.00.
- R-1840 Test of Model N-S27C Radio
U Receiver, submitted by the
1/42 Hallicrafters Co. L. T.
Bourland, K. L. Mengle, S. H.
Liebson, W. C. Whitmer, G. H.
Burbage, W. E. Dinkins.
PB16882, Mi\$1.00, Ph\$7.00.

- B-1841 Test of Blown-Fuse Transformers, submitted by RCA Mfg. Co. U
1/42 G. H. Grogan, G. Pida.
PB122733, Mi\$2.40, Ph\$3.30.
- M-1842 The Influence of Heat Treatment on the Magnetic Properties of Some Armor-Plate Steels of the "N-A-X" and "STS" Types. U
2/42 L. A. Carapella, H. F. Kaiser.
PB122735, Mi\$2.70, Ph\$4.80.
- M-1843 Comparative Tests on Commercial Radiographic Films for Naval Use. U
2/42 A. L. Christenson.
PB122736, Mi\$2.40, Ph\$3.30.
- R-1844 Test of Insulating Material, Body No. 2532, submitted by General Ceramic Co. U
2/42 W. E. Bower.
PB122740, Mi\$1.80, Ph\$1.80.
- R-1845 Test of Model TCQ Transmitting and Receiving Equipment, submitted by Higgins Industries, Inc. U
2/42 C. B. Davis.
PB17577, Mi\$2.00, Ph\$12.00.
- R-1846 Electrical Properties of Coaxial Transmission Lines for High Power Applications. U
3/42 L. G. Robbins, O. Norgorden.
PB17576, Mi\$1.00, Ph\$4.00.
- B-1847 Test of Navy Types B-1, B-2, B-5, and B-6 Bells, B-7 and B-8 Bar Chimes, H-1 and H-2 Horns, and Z-1 and Z-2 Buzzers submitted by Edwards and Co. U
3/42 F. H. Dunlap.
- H-1848 Daylight Observation of Stars and Planets, III, Daylight Sky Brightness and Visibility of Stars at Various Altitudes Above Sea Level. U
3/42 R. Tousey, E. O. Hulbert.
PB79462, Mi\$2.00, Ph\$6.00.
- P-1849 A New Method for the Study of the Oxidation Stability and Corrosiveness of Lubricating Oils. U
3/42 W. Zisman, C. M. Murphy, Jr.
- M-1850 The Effect of Alloying Elements on the Hardenability of Steel (Preliminary Report). U
3/42 F. M. Walters, Jr.
PB120551, Mi\$2.40, Ph\$3.30.
- R-1851 Test of Insulating Material, submitted by Victor Insulators Inc. U
3/42 W. E. Bower.
PB120552, Mi\$1.80, Ph\$1.80.
- B-1852 Test of Tachometer. Type C Class a, submitted by Corbin Screw Corp. U
3/42 J. S. Bryant, J. R. Coomes.
- P-1853 A Physical Test Method for Determining the Degree of Impregnation of Asbestos Rovings in FP and HF Type Electric Cables. U
3/42 M. A. Elliott.
PB120553, Mi\$2.40, Ph\$3.30.
- R-1854 Test of Twelve Wire Wound Fixed Resistors, submitted by Ward Leonard Electric Co. U
3/42 H. A. Brinkman.
PB109452, Mi\$1.75, Ph\$2.50.
- R-1855 Tests of Model CXAR Aircraft Transmitting Equipment, submitted by Bendix Radio Corp. U
3/42 R. A. Gordon, P. D. Shupe.
PB17585, Mi\$1.50, Ph\$10.00.
- B-1856 Test of Bells, Types CV10, CVX10, and CSWT10, submitted by Signal Engineering and Mfg. Co. U
3/42 F. H. Dunlap, G. Pida.
- P-1857 The Onan Gasoline Engine Installation at the Naval Research Laboratory for Oil and Gasoline Tests. U
3/42 H. R. Baker, C. M. Murphy, Jr., W. A. Zisman.
PB120554, Mi\$2.40, Ph\$3.30.
- R-1858 Test of Six Wire Wound Fixed Resistors, submitted by Hardwick, Hindle Inc. U
4/42 H. A. Brinkman.
PB120555, Mi\$1.80, Ph\$1.80.
- R-1859 Test of 5 Kilovolt Voltmeter Multiplier Resistors, submitted by Sprague Specialties Co. U
4/42 H. A. Brinkman.
PB120556, Mi\$2.40, Ph\$3.30.
- P-1860 A Study of the Compatibility of Silosyn-Lacquer Mixtures. U
4/42 G. Mustin, A. L. Alexander.
PB120557, Mi\$3.00, Ph\$6.30.
- M-1861 The Substitution of Manganese for Nickel in STS Armor Plate. U
3/42 B. M. Loring.
PB120558, Mi\$2.70, Ph\$4.80.
- R-1862 A "Phantom" Target for Use with Radar Equipment. U
4/42 F. C. Isely.
PB47638, Mi\$1.00, Ph\$2.00.
- R-1863 Hazard to Security of Naval Vessels from Radio Receiver Radiation. U
4/42 D. McClenon, K. L. Mingle, D. O. Collup.
PB32239, Mi\$1.00, Ph\$4.00.
- R-1864 Tests of Model CXAP Aircraft Transmitting Equipment, submitted by Westinghouse Electric & Mfg. Co. U
4/42 R. A. Gordon, P. D. Shupe, Jr.
PB17584, Mi\$1.50, Ph\$9.00.
- P-1865 A Study of Temperature Indicating Paints. U
4/42 P. King.
PB120559, Mi\$1.80, Ph\$1.80.
- R-1866 Test of Model TCS Transmitting Equipment, submitted by Collins Radio Corp. U
5/42 E. M. Kavanaugh, M. L. Leppert, C. B. Davis.
- C-1867 Investigation of Chloromides for Use on Protective Clothing. U
4/42 R. H. Bullard, J. W. Williams, J. C. Speck, K. Hayes, J. C. Conner.
- P-1868 A Study of the Fyrite 0.5% CO₂ Indicator for the Purpose of Improving the Design and Operating Instructions to Make it Suitable for Use Aboard Submarines. U
4/42 M. H. Boyer, F. S. Thomas.
PB120560, Mi\$3.00, Ph\$6.30.
- R-1869 Test of Insulating Material, submitted by the National Porcelain Co. U
6/42 W. E. Bower.
PB120561, Mi\$1.80, Ph\$1.80.
- M-1870 Research on the Weldability of Iron Alloys: A Correlation of Tests for Weldability and Calculated Hardenability for Carbon-Manganese Steels. U
4/42 C. E. Jackson, G. G. Luther, M. A. Pugacz.
PB120562, Mi\$3.30, Ph\$7.80.
- R-1871 Test of Insulating Material, submitted by Electronic Mechanics Inc. U
6/42 W. E. Bower.
PB120563, Mi\$1.80, Ph\$1.80.
- P-1872 A Method for the Estimation of the Aromaticity of Aviation Gasolines. U
5/42 A. D. Swensen, C. Lamb.
PB120564, Mi\$2.70, Ph\$4.80.
- R-1873 Test of Six Wire Wound Fixed Resistors, submitted by Sprague Specialties Co. U
5/42 H. A. Brinkman.
PB120565, Mi\$2.40, Ph\$3.30.
- P-1874 A Substitute for Aluminum Powder in the Tinting of Zinc Chromate Primer. U
5/42 P. King, A. L. Alexander.
PB120566, Mi\$2.40, Ph\$3.30.
- R-1875 Test of Isolantite 300, submitted by Isolantite Inc. U
8/42 W. E. Bower.
PB120567, Mi\$1.80, Ph\$1.80.
- M-1876 The Effect of Cold Working on the Magnetic Properties of Some Austenitic Manganese Steels. U
5/42 L. A. Carapella.
- P-1877 A Study of the Dwyer and Friez Zero to 5% Carbon Dioxide Indicators to Determine Their Suitability for Naval Use. U
5/42 M. H. Boyer, F. S. Thomas.
PB120627, Mi\$2.70, Ph\$4.80.
- P-1877A A Study of the Dwyer Zero to 5% Carbon Dioxide Indicator to Determine Its Suitability for Naval Use. U
7/42 M. H. Boyer, F. S. Thomas.
PB120568, Mi\$2.70, Ph\$4.80.
- P-1877B A Study of the Friez Zero to 5% Carbon Dioxide Indicator to Determine Its Suitability for Naval Use. U
7/42 M. H. Boyer, F. S. Thomas.
PB120628, Mi\$2.70, Ph\$4.80.

Numerical Index

R-1878 - R-1916

- R-1878 Coupling Between Antennas at Intermediate Frequencies. U
5/42 C. W. Christenson, O. Norgorden. PB17586, Mi\$1.00, Ph\$6.00.
- B-1879 Test of Salinity Indicator Equipment, submitted by Sanotone Corp. U
6/42 C. H. Grogan, F. M. Holcomb, Jr. PB120626, Mi\$3.30, Ph\$7.80.
- B-1880 Test of Buzzer, Navy Type Z-2, Pressure-Proof, submitted by U
5/42 Edwards and Co F. H. Dunlap.
- R-1881 Test on Mercury in Glass Thermostats and Thermometers, submitted by Electric Glass Co. U
6/42 H. F. Hastings. PB120570, Mi\$1.80, Ph\$1.80.
- S-1882 An Underwater, Loud-Speaker for Audio Frequencies, Model X-2. U
6/42 J. M. Ide. PB22782, Mi\$.50, Ph\$2.00.
- R-1883 Transmitting Tube Tester Model 786-2, submitted by Weston Electrical Instrument Corp. U
7/42 W. A. McCool. PB120569, Mi\$2.40, Ph\$3.30.
- B-1884 Test of Gun Firing Transformer-Type GF-200V.A., submitted by U
6/42 Standard Transformer Co J. S. Bryant.
- R-1885 Test of 3 and 5 Kilovolt Voltmeter Multiplier Resistor, submitted by U
7/42 International Resistance Co. H. A. Brinkman. PB109585, Mi\$1.75, Ph\$2.50.
- M-1886 Sensitive Geiger-Muller Counters for Detection of Gamma Rays. U
6/42 H. Friedman. PB109273, Mi\$2.00, Ph\$3.75.
- H-1887 Low Visibility Painting of Lighter than Air Craft. U
6/42 E. O. Hulbert. PB120599, Mi\$2.40, Ph\$3.30.
- M-1888 The Calculation of the Tensile Strength of Normalized Steels from Their Chemical Composition. U
6/42 F. M. Walters, Jr. PB109564, Mi\$2.00, Ph\$3.75.
- B-1889 Test of Buzzers, Navy Types Z-1 Pressure-Proof and Water-Tight, submitted by Edwards & Company. U
6/42 F. H. Dunlap.
- R-1890 The Proximity Effect of a Metallic Fence on a Navy Type DT Direction Finder. M. K. Goldstein. U
6/42 PB17569, Mi\$.50, Ph\$2.00.
- P-1891 Method of Test for Deep Drying Insulating Varnishes. U
6/42 M. A. Elliott. PB120514, Mi\$2.70, Ph\$4.80.
- O-1892 Light Armor. X, Effects of Temperature on the Resistance to U
6/42 Impact Penetration and Hardness of Soft Homogeneous Armor and Face-Hardened Bullet-Proof Steel and a Description of a New Basic Feature of Impact Penetration. G. D. Kinzer. PB120678, Mi\$3.30, Ph\$7.80.
- B-1893 Test of Contact Makers, Types "L" and "N," submitted by Fulton U
6/42 Syphon Co. G. Pida, F. M. Holcomb, Jr.
- R-1894 Philco Beacon Marker Receiver BC-357-C and Detrola Beacon Marker Receiver EG-M. U
6/42 R. A. Gordon, S. Riccobono. PB109499, Mi\$2.75, Ph\$7.50.
- P-1895 The Evaluation of Several Aromatic Fuel Resistant Slushing Compounds. U
6/42 I. J. S. Strong, P. King. PB120515, Mi\$2.40, Ph\$3.30.
- R-1896 The Performance of the British FH-3 and the International Telephone & Radio Laboratories Crossed Loop Type High Frequency Direction Finders (Aboard USS CORRY DD 463). U
6/42 M. K. Goldstein. PB109515, Mi\$3.00, Ph\$8.75.
- 1897 Cancelled.
- C-1898 Prophylaxis and Treatment of Burns Caused by Chemical Warfare Agents. (1) Treatment of Mustard Burns with S-461 Ointment in a Series of Controlled Experiments on Human Subjects. U
4/42 L. E. Daily.
- P-1899 Prophylaxis and Treatment of Burns Caused by Chemical Warfare Agents. (2) Prophylaxis, as Applied to Preventions of Burns by Liquid Mustard with S-461 Ointment. U
5/42 L. E. Daily.
- S-1900 Under Water Loud-Speaker for Low Audio Frequencies, Model X-3. J. M. Ide. U
7/42 PB22783, Mi\$.50, Ph\$2.00.
- B-1901 Horn, Navy Type H-7, submitted by Defiance Alloyed Products Co. U
7/42 F. H. Dunlap.
- P-1902 Sabotage Agents for Use in Lubricating Oils for Internal Combustion Engines. U
7/42 H. R. Baker, C. M. Murphy, Jr.
- P-1903 The Determination of Stibine in Submarine Storage Battery Cases. U
7/42 E. J. Peebles. PB120516, Mi\$2.40, Ph\$3.30.
- P-1904 Oxygen Source Materials, XI, Use of the Alkali Oxides in Canisters for Submarine Air Purification. U
7/42 J. A. Grand, E. A. Ramskill, D. S. Burgess.
- B-1905 Test of Annunciator - Nine Drop, submitted by Henschel Corp. U
7/42 F. H. Dunlap.
- R-1906 Fairchild Ultra High Frequency Receiver, Model F-100. U
7/42 R. A. Gordon, S. Riccobono, H. C. Clark. PB37965, Mi\$2.00, Ph\$4.00.
- R-1907 Test of Model TDE Radio Transmitting Equipment, submitted by Westinghouse Electric & Mfg. Co. U
7/42 E. M. Kavanaugh, F. D. Hobart, C. B. Davis. PB17575, Mi\$3.00, Ph\$20.00.
- S-1908 An Analysis of the Anti-Submarine Warfare Problem from the Standpoint of Underwater Acoustics. U
7/42 H. C. Hayes. PB120679, Mi\$2.40, Ph\$3.30.
- M-1909 Preparation of Radiographic Standards. H. F. Taylor, U
7/42 H. F. Bishop, E. A. Rominski, H. F. Kaiser, A. L. Christenson. PB120534, Mi\$3.30, Ph\$7.80.
- B-1910 Test of Frequency Control Equipment, submitted by Bendix Aviation Corp. G. Pida, U
7/42 C. H. Grogan. PB120536, Mi\$3.00, Ph\$6.30.
- M-1911 Research on the Weldability of Iron Alloys: The Heat-Affected Zone in Bead Welds on STS Armor. U
7/42 C. E. Jackson, G. G. Luther. PB37973, Mi\$1.00, Ph\$3.00.
- B-1912 Test of Fire Alarm Equipment (Four Unit Supervisory Annunciator), submitted by Edwards & Co. U
7/42 A. R. Donaldson, F. H. Dunlap.
- R-1913 Test of Six Wire Wound Fixed Resistors, submitted by Hardwick, U
7/42 Hindle, Inc. H. A. Brinkman. PB109514, Mi\$1.75, Ph\$2.50.
- P-1914 Substitutes for Toluene for Use with Organic Coatings. P. King, U
7/42 J. Strong. PB120535, Mi\$2.40, Ph\$3.30.
- R-1915 Test on LT Equipment. U
7/42 A. E. Hastings, R. M. Page. PB17574, Mi\$.50, Ph\$1.00.
- R-1916 Poor Reception of the Transmissions from the Annapolis High Power Radio Station in the Vicinity of Newport, Rhode Island. U
8/42 H. E. Dinger. PB109513, Mi\$2.00, Ph\$3.75.

R-1917 - P-1957

Naval Research Laboratory

- R-1917 Tests of Model SCR-522-T2 Ultra High Frequency Equipment, submitted by Bendix Corp. R. A. Gordon, J. F. Clark, III. PB120680, Mi\$4.80, Ph\$13.80.
- R-1918 Test of Insulating Material, submitted by Lapp Insulator Co. W. E. Bower. PB109512, Mi\$1.25, Ph\$1.25.
- O 1919 Precipitation Static Problem. I. U R. Gunn, W. C. Hall. 8/42 PB87206, Mi\$1.75, Ph\$4.00.
- R-1920 Test of Insulating Material, No. XM11478 (Micanol), submitted by Westinghouse Electric & Mfg. Co. W. E. Bowers. PB109511, Mi\$1.25, Ph\$1.25.
- R-1921 Test of Model TCY Portable Emergency Transmitting Equipment, submitted by Federal Telegraph Co. S. M. Rice, M. F. Hodges, C. B. Davis. PB17573, Mi\$1.00, Ph\$5.00.
- R-1922 Test of Type CXBG Radio Receiving Equipment, submitted by Panoramic Radio Corp. L. T. Bourland, H. J. Peake, A. L. Franta. PB17572, Mi\$1.00, Ph\$5.00.
- O-1923 Eddy Current Type Flaw Detectors, V, Application to Inspection of Aluminum Alloy Propeller Blades. J. E. Dinger. PB120537, Mi\$2.70, Ph\$4.80.
- S-1924 Performance Tests of Underwater Loud-Speaker Model X-3. (Supplement to NRL Report S-1900). J. M. Ide. PB16883, Mi\$5.50, Ph\$1.00.
- M-1925 Research on the Weldability of Iron Alloys - Weldability Tests and Calculated Hardenability for 42 Carbon-Manganese Steels. C. E. Jackson, G. G. Luther, M. A. Pugacz. PB120538, Mi\$2.70, Ph\$4.80.
- O-1926 Mine Detection of Magnetic Induction Methods. 8/42 R. C. Waddel, J. Parker.
- R-1927 Test of Insulating Material, Steatite Nos. 1713 & 1717, submitted by General Electric Co. W. E. Bower. PB120629, Mi\$1.80, Ph\$1.80.
- R-1928 Test of Insulating Material, Dilectene, No. 100, submitted by Continental-Diamond Fibre Co. W. E. Bower. PB120631, Mi\$1.80, Ph\$1.80.
- R-1929 Test of Insulating Material (Peristite), submitted by Westinghouse Electric and Mfg. Co. W. E. Bower. PB120630, Mi\$1.80, Ph\$1.80.
- P-1930 Wetting and Spreading Agents for Cleaning Water Surfaces of Oil Films. W. A. Zisman, D. L. Pickett. PB105919, Mi\$1.75, Ph\$2.50.
- P-1931 Oxygen Source Material, X, Operation of Pilot Plant for Production of Mixed Oxides of Potassium and Sodium. S. Gulbrandsen, R. R. Miller. PB109563, Mi\$3.00, Ph\$8.75.
- P-1932 Cancelled.
- P-1933 A Survey of Proposed Methods for Rapid Evaluation of the Protective Capacity of Impregnated Clothing. W. H. Taylor, J. C. Conner, Jr.
- P-1934 A Study of Glass Sealers. P. King, R. L. Tuve, A. L. Alexander. 9/42 PB109562, Mi\$2.00, Ph\$3.75.
- M-1935 Low Alloy Copper Cast Steel. U H. F. Taylor, H. F. Bishop, E. A. Rominski. 9/42 PB109234, Mi\$3.50, Ph\$10.00.
- R-1936 Test of Insulating Material, Body Mix Nos. 158 and 32, submitted by Ohio Brass Co. J. E. Martin. PB109235, Mi\$1.25, Ph\$1.25.
- R-1937 Test of Model SC-1 Radar Equipment, submitted by General Electric Co. R. M. Page, R. B. Myer, T. McL. Davis.
- R-1938 Specifications for Minimum Direction Finder Site Requirements. U M. K. Goldstein. 9/42 PB17571, Mi\$5.50, Ph\$2.00.
- R-1939 Test on Insulating Material, Steatite No. 1, submitted by Star Porcelain Co. H. F. Hastings. PB109243, Mi\$1.25, Ph\$1.25.
- R-1940 Test of SX-1 and TX Insulating Material, submitted by Louthan Mfg. Co. H. F. Hastings. 9/42 PB122739, Mi\$1.80, Ph\$1.80.
- R-1941 Test of M. F. Formica, submitted by Formica Insulation Co. U H. F. Hastings. 10/42 PB109245, Mi\$1.50, Ph\$1.50.
- R-1942 Test of Insulating Material, submitted by Maryland Lava Co. U J. E. Martin. 9/42 PB109246, Mi\$1.25, Ph\$1.25.
- R-1943 A Pulse "Phantom" Target for Use with Radar and IFF Equipment. U F. C. Iaely, J. E. Stankey. 10/42 PB120681, Mi\$2.40, Ph\$3.30.
- P-1944 The Use of RH-195 for the Decontamination of HS and M-1. U J. E. Johnson. 10/42
- R-1945 Poor Reception of NSS Fox Schedules (18Kc) in the Vicinity of Norfolk, Va. U H. E. Dinger. 10/42
- P-1946 A Study of the MSA Hydrogen Eliminator V to Determine Its Operating Characteristics. U F. S. Thomas. 10/42 PB109247, Mi\$2.25, Ph\$5.00.
- R-1947 Test of Six Wire Wound Style A Fixed Resistors, submitted by Hardwick, Hindle, Inc. U H. A. Brinkman. 10/42 PB109248, Mi\$1.75, Ph\$2.50.
- R-1948 The Plan Position Indicator. U J. J. Fleming, M. S. McVay. 11/42
- R-1949 Test of Head Telephone Receivers, Type 49016, Head Bands, Type 49028, and Diaphragms, Type 49033, submitted by Dictograph Sales Corp. U H. F. Hastings. 10/42 PB109249, Mi\$1.50, Ph\$1.50.
- O-1950 Detection and Location of Concealed Microphone Wires. U R. C. Waddel, J. P. Parker. 9/42 PB122743, Mi\$2.40, Ph\$3.30.
- R-1951 Tests of Components for Models RBM, RBM-1, and RBM-2 Receiving Equipment. M. I. Hull. U PB17579, Mi\$5.50, Ph\$3.00.
- S-1952 The Shock Produced by a Collapsing Cavity in Water. U M. F. M. Osborne. 10/42 PB109244, Mi\$2.75, Ph\$7.50.
- P-1953 Prophylaxis and Treatment of Burns Caused by Chemical Warfare Agents. (3) Prophylaxis of M-1 Burns with Modified S-461 Ointment. U L. E. Daily. 10/42
- P-1954 Sabotage Agents for Use in Lubricants and Fuels for Internal Combustion Engines, II. U V. G. Fitzsimmons, H. R. Baker, C. M. Murphy, Jr. 10/42
- R-1955 Tests of the Bell Laboratories and Arma Corp. Automatic Radar Equipment Used in Conjunction with a Mark 37 Director, Mark 1, Model 2 Computer and a Mark 4 Radar System. A. H. Schooley. U PB120682, Mi\$3.30, Ph\$7.80.
- M-1956 The Heat Treatment of Stockless Anchors. U H. F. Taylor, H. F. Bishop, E. A. Rominski. 11/42
- P-1957 Gould Type ULX-65 Submarine Storage Battery Cell #18 from the USS S-45. U E. J. Peebles. 11/42 PB120603, Mi\$2.70, Ph\$4.80.

Numerical Index

O-1958 - B-2001

- O-1958 Scale Model Tests of Main Steam Piping of ANI USS MONITOR. 11/42 I. Vigness, T. E. Pardue.
- S-1959 The A-B-C's of Anti-Submarine Warfare. H. C. Hayes. 11/42 PB120683, Mi\$2.40, Ph\$3.30.
- R-1960 Test of Model TBK-12 Radio Transmitting Equipment, Submitted by RCA Mfg. Co. E. L. Hurd, T. D. Hobart, C. B. Davis. 11/42 PB17578, Mi\$2.00, Ph\$11.00.
- P-1961 A Method for the Evaluation of the Abrasion Resistance of Aeroplane Propeller Finishes. C. Barber, J. B. Ballentine. 11/42 PB109217, Mi\$2.00, Ph\$3.75.
- O-1962 Light Weight H. I. Shock Machine Acceleration Measurements on Typical Auxiliary Mounting Arrangements. I. Vigness. 11/42
- B-1963 Test of Horns, Proposed Types H-10, H-11, H-12, and H-13, submitted by Defiance Alloyed Products Co. J. S. Bryant, F. H. Dunlap. 11/42
- B-1964 Test of Transformers, Type GF, submitted by Westinghouse Electric and Mfg. Co. J. S. Bryant. 12/42
- O-1965 High Impact Shock Instrumentation and Measurements. I. Vigness. 11/42
- P-1966 Method of Measuring Penetration Time for Deep Drying Insulating Varnishes. H. A. Pohl, M. A. Elliott. 11/42 PB99158, Mi\$2.00, Ph\$3.75.
- B-1967 Test of Contact Makers, Types "L" and "N," submitted by Detroit Lubricator Co. A. R. Donaldson, F. W. Jank. 12/42 PB109228, Mi\$2.25, Ph\$5.00.
- B-1968 Test on Underwater Electric Log Equipment, submitted by Consolidated Instruments Corp. A. R. Donaldson, F. W. Jank. 12/42
- P-1969 An Investigation of Infra-Red Reflecting Paints. J. S. Strong. 12/42
- O-1970 A Vacuum Tube Current Amplifier. R. C. Waddel. 12/42 PB120604, Mi\$2.40, Ph\$3.30.
- P-1971 A Comparative Study of the British, N.R.L. and CWS Methods for Measurement of HS Vapor Penetration through Protective Clothing. W. H. Taylor, J. C. Conner, Jr., K. G. Williams. 12/42
- R-1972 Test on Insulating Material, submitted by Birnback Radio Co. J. E. Martin. 12/42 PB109227, Mi\$1.50, Ph\$1.50.
- R-1973 Test of Insulating Material, Certificate No. 29, submitted by Henry L. Crowley and Company, Inc. J. E. Martin. 12/42 PB109229, Mi\$1.25, Ph\$1.25.
- R-1974 Test of British Type 291 Radar Equipment. L. V. Blake, J. W. Glover, Jr. 2/43
- R-1975 Test on Insulating Material, Centralab Cordierite Type 400, submitted by Globe Union Co. J. E. Martin. 1/43 PB109230, Mi\$1.25, Ph\$1.25.
- R-1976 Test of Model YG Homing Beacon Equipment, submitted by RCA Mfg. Co. S. M. Rice, M. F. Hodges, M. L. Leppert, H. R. Johannessen. 1/43
- O-1977 Liquid Thermal Diffusion Research. P. Abelson. 1/43
- B-1978 Test on Buzzers, Types Z-1 and Z-2, submitted by Benjamin Electric & Mfg. Co. J. S. Bryant. 2/43
- R-1979 Test of Noise and Output Limiters. E. Toth. 1/43 PB28823, Mi\$2.00, Ph\$6.00.
- O-1980 Location of Armor for Pilot Protection. G. R. Irwin. 1/43 PB120684, Mi\$1.80, Ph\$1.80.
- O-1981 Liquid Thermal Diffusion, II. P. H. Abelson. 1/43
- B-1982 Test of Annunciator - 25 Drop, submitted by Bendix Aviation Corp. F. H. Dunlap. 1/43
- R-1983 Test of Head Telephone Receivers, submitted by Nathaniel Baldwin Laboratories. M. I. Hull. 1/43 PB109231, Mi\$2.00, Ph\$2.75.
- P-1984 Spreading Agents for Clearing Water Surface of Oil Film, II. D. L. Pickett, W. A. Zisman. 1/43 PB109232, Mi\$2.00, Ph\$3.75.
- R-1985 Test of XBC Radio Beacon Equipment. L. G. Robbins, O. Norgorden. 1/43 PB17583, Mi\$1.00, Ph\$4.00.
- P-1986 A Study of the Pauling Oxygen Meter Toward Its Possible Adaptation to Naval Use. M. H. Boyer, F. S. Thomas. 1/43 PB109250, Mi\$2.75, Ph\$6.50.
- P-1987 Reflection Reducing Coatings for Transparent Plastic Surfaces. P. King. 1/43 PB78598, Mi\$1.00, Ph\$1.00.
- R-1988 Test of Insulating Material Locketite, submitted by Lock Insulator Corp. J. E. Martin. 1/43 PB120600, Mi\$1.80, Ph\$1.80.
- H-1989 The Optics of Paints, II. The Spectral Reflectivity of Commercial Infra-Red Reflecting Deck Paints to 2.5 Microns. J. A. Sanderson, W. R. Holm. 1/43 PB109509, Mi\$2.00, Ph\$3.75.
- R-1990 Test of Insulating Material, submitted by Maryland Lava Co. J. E. Martin. 1/43 PB109510, Mi\$1.25, Ph\$1.25.
- B-1991 Test of Tachometer, Commercial Type, submitted by Ideal Commutator Dressor Co. F. W. Jank. 2/43 PB120605, Mi\$2.40, Ph\$3.30.
- B-1992 Test of Horn, Navy Type H-7, submitted by Defiance Alloyed Products Co. J. S. Bryant. 3/43 PB120606, Mi\$1.80, Ph\$1.80.
- B-1993 Test of Horns, Types H-3 and H-4, submitted by Schwarze Electric Co. D. T. Scuderi. 3/43 PB120608, Mi\$2.40, Ph\$3.30.
- B-1994 Test of Horn, Navy Type H-5A, submitted by Federal Electric Co. D. T. Scuderi. 4/43
- P-1995 Cancelled.
- R-1996 Anti-Aircraft Fire Control Studies - Testing Methods and Apparatus. J. J. Fleming, J. H. Wright. 5/43 PB79464, Mi\$1.00, Ph\$3.00.
- P-1997 The Prevention of Fogging of Optics in Submarine Periscopes. W. H. Schechter, R. R. Miller. 2/43 PB120592, Mi\$2.40, Ph\$3.30.
- P-1998 A General Survey of the Use of Methyl Bromide as a Fire Extinguishing Agent. R. L. Tuve. 2/43 PB109218, Mi\$4.25, Ph\$12.50.
- P-1999 Oxygen Source Material. XII., Burning of Potassium Metal to Potassium Tetroxide with DeVilbiss Spray Gun. L. M. Foster. 2/43 PB109219, Mi\$2.00, Ph\$3.75.
- P-1999A Oxygen Source Material. Supplement to XIIth Report. Burning of Potassium Metal to Potassium Tetroxide with a DeVilbiss Spray Gun. G. J. Coll. 7/43
- P-2000 Protective Clothing. G. M. Gantz, W. H. Taylor. 2/43
- B-2001 Test on Contact Maker, Type N (Local Switching), submitted by United Electric Controls Co. F. W. Jank. 3/43 PB120610, Mi\$2.40, Ph\$3.30.

B-2002 - B-2043

Naval Research Laboratory

- B-2002 Test on Contact Maker, Type L, U submitted by United Electric Controls Co. F. W. Jank. 3/43 PB120609, Mi \$1.80, Ph \$1.80.
- M-2003 The Causes of Porosity and Leakage Nonferrous Castings (Foundry Details for 3rd Stage Cylinder 7 $\frac{1}{2}$ cu. ft. High Pressure Air Compressor). A. H. Hesse, R. H. Brouk. 3/43 PB120613, Mi \$2.40, Ph \$3.30.
- B-2004 Test on Horns, Navy Types H-5 and H-5A, submitted by Schwarze Electric Co. D. T. Scuderi. 3/43
- B-2005 Test on Horn, Type H-3 and H-4 (Combined), submitted by Federal Electric Co., Inc. J. S. Bryant. 3/43 PB109221, Mi \$1.75, Ph \$2.50.
- P-2006 Temporary Camouflage Paints for Use on Naval Aircraft. U 3/43 P. King, W. H. Stewart. PB109220, Mi \$1.75, Ph \$2.50.
- R-2007 Test of Model XTCK Radio Transmitting Equipment. U 3/43 W. J. Rosch, M. L. Leppert. PB17582, Mi \$2.00, Ph \$14.00.
- P-2008 Reflection Reducing Coatings for Glass and Transparent Plastic Surfaces, II. U 2/43 P. King. PB66136, Mi \$1.00, Ph \$1.00.
- P-2009 A Method for the Study of the Hydrolysis of Organic Fluorine and Chlorine Compounds submitted for Use as Non-Inflammable Hydraulic Oils. U 2/43 K. L. Temple, J. K. Wolfe. PB120612, Mi \$2.40, Ph \$3.30.
- B-2010 Test of Tachometer, Type B, Class b, submitted by Stewart-Warner Corp. U 4/43 F. W. Jank. PB120611, Mi \$2.40, Ph \$3.30.
- P-2011 Investigation of Methods for the Production of Metallic Potassium. U 9/42 C. A. Kraus. PB109222, Mi \$2.75, Ph \$7.50.
- H-2012 The Electron Microscope. U 3/43 H. Friedman, LaV. S. Birks. PB109223, Mi \$2.75, Ph \$6.50.
- M-2013 The Causes for Porosity and Leakage in Non-Ferrous Castings: The Effect of Replacing Tin by Nickel on the Porosity, Mechanical Properties and Corrosion Resistance of Tin Bronze. U 2/43 A. H. Hesse, E. T. Myskowski, R. H. Brouk, B. M. Loring. PB120614, Mi \$3.30, Ph \$7.80.
- R-2014 Test on Insulating Material, submitted by Louthan Mfg. Co. U 3/43 J. E. Martin. PB109251, Mi \$1.25, Ph \$1.25.
- B-2015 Test of Bell, Navy Type B-2, U submitted by Schwarze Electric Co. J. S. Bryant. 3/43
- B-2016 Test of Bell, Navy Type B-3, submitted by Schwarze Electric Co. U 4/43 D. T. Scuderi.
- B-2017 Test of Horns, Types H-1 and H-2, submitted by Schwarze Electric Co. U 4/43 J. S. Bryant.
- B-2018 Test of Buzzers, Types Z-1 and Z-2, WT, submitted by Schwarze Electric Co. U 4/43 J. S. Bryant. PB120615, Mi \$2.40, Ph \$3.30.
- M-2019 Properties and Welding of Aircraft Tubing and Plate of the SAE X4340 Composition. U 1/43 C. E. Jackson, M. A. Pugacz. PB120615, Mi \$3.90, Ph \$10.80.
- M-2020 The Mechanical and Ballistic Properties of Low Carbon Iron-Manganese Alloys, II. U 2/43 I. R. Kramer, S. L. Toleman, R. H. Hafner. PB109236, Mi \$2.25, Ph \$5.00.
- P-2021 Determination of Perchlorates in Submarine Storage Battery U 3/43 Electrolyte. E. J. Peebles. PB122679, Mi \$2.40, Ph \$3.30.
- R-2022 Preliminary Report on Tests of Reflecting Material as a Radar Countermeasure. U 3/43 L. V. Blake. PB120685, Mi \$4.50, Ph \$12.30.
- R-2023 Cancelled.
- H-2024 The Optics of Paints: The Emissivity of Navy Aluminum Paints Type A and Type B and of Inside Granular Pigment Paints. U 3/43 J. A. Sanderson, W. R. Holm. PB130313, Mi \$2.40, Ph \$3.30.
- O-2025 The Precipitation-Static Problem. U II. W. C. Hall, R. Gunn. 3/43 PB120697, Mi \$3.00, Ph \$6.30.
- P-2026 Oxygen Source Materials, XIII, The Production of Potassium from Potassium Carbonate. U 5/43 C. R. Witschonke, G. J. Coll, R. R. Miller.
- H-2027 Ultraviolet Counters - Application to a Fire Alarm. U 3/43 H. Friedman. PB37974, Mi \$1.00, Ph \$2.00.
- H-2028 An Exposure Meter for Radiography, II. U 4/43 H. Friedman, E. der Mateosian. PB109449, Mi \$1.75, Ph \$2.50.
- R-2029 Test on Head Telephone Receivers, U Headband and Cord, submitted by Permoflux Corp. U 4/43 M. I. Hull. PB109446, Mi \$2.25, Ph \$5.00.
- P-2030 Progress in the Study of Organic Protective Finishes for Plywood Airplanes and Gliders. U 2/43 J. Leonard. PB109447, Mi \$2.25, Ph \$5.00.
- M-2031 The Stress Relief of Steel Castings, I, Relaxation of Plain Carbon Cast Steel. U 5/43 E. A. Rominski, H. F. Taylor. PB109448, Mi \$2.25, Ph \$5.00.
- S-2032 Underwater Sound Pressures Beneath a Ship-Mounted Source as a Function of Bottom Impedance. U 3/43 J. M. Ide, R. F. Post.
- M-2033 Colorimetric Determination of Chromium in Steel. U 4/43 W. A. Chambers, Jr., L. Singer.
- H-2034 Effectiveness of Photoflash Lamps for Destroying Dark Adaptation. U 3/43 R. Tousey. PB120601, Mi \$1.80, Ph \$1.80.
- H-2035 Dark Adaptation: Time to Become Dark Adapted after Stimulation by Various Brightnesses and Colors. U 3/43 E. H. Hulbert. PB122680, Mi \$2.70, Ph \$4.80.
- M-2036 Radon Leakage from Navy Radium Capsules. U 1/43 H. F. Kaiser. PB18796, Mi \$1.50, Ph \$2.00.
- M-2037 Effect of Iron Inclusions in Asbestos on Electrical Characteristics of Insulating Material - Detection of Iron Particles by X-Radiography. U 4/43 H. F. Kaiser, M. Elliot, C. T. Klee. PB109285, Mi \$2.00, Ph \$3.75.
- R-2038 Test of Models TBY-1 and TBY-2 Radio Transmitting Equipments, submitted by Westinghouse Electric & Mfg. Co., and Colonial Radio Co. U 5/43 S. M. Rice, M. F. Hodges. PB120602, Mi \$7.20, Ph \$22.80.
- P-2039 A Method for the Separation and Analysis of Aromatic Fractions of Aviation Gasoline. U 4/43 R. H. Blizzard. PB120617, Mi \$2.40, Ph \$3.30.
- H-2040 Improvements in Reflector Sights and Their Use for Night Fighting Aircraft. U 4/43 R. Tousey.
- B-2041 Test of Horns, Types H-8 and H-9, submitted by Federal Electric Co. U 4/43 J. S. Bryant.
- B-2042 Cancelled.
- B-2043 Test of Horns, Type H-3 (Two Designs), submitted by Sparks-Withington Co. U 5/43 J. S. Bryant.

Numerical Index

B-2044 - B-2084

- B-2044 Test of Horns, Type H-4, submitted by Sparks-Withington Co.
U
5/43 D. T. Scuderi.
PB120618, Mi\$2.40, Ph\$3.30.
- R-2045 Systems Test of the Models ASG and XASG Radar Equipments, submitted by Phico Co.
U
4/43 A. C. Grosvenor, F. D. Schaller.
- R-2046 Test of Insulating Material submitted by Porcelain Enamel and Mfg. Co. J. E. Martin.
U
4/43 PB120620, Mi\$1.80, Ph\$1.80.
- O-2047 Liquid Thermal Diffusion Research, III, Theory of Isotope Separation by Thermal Diffusion 1 Single Column. N. Rosen.
U
4/43
- R-2048 Effect of Painting Type 327A and 227A Transmitting Tubes for Blackout Purposes. R. Deutsch, M. F. Distad, R. C. Guthrie.
U
3/43 PB28758, Mi\$1.00, Ph\$1.00.
- B-2049 Test of Head Telephone Receivers, Type 49016; Head Bands, Type 49028; Diaphragms, Type 49033; Telephone Cord and Plug, Type C-49064, submitted by Telephonics Corp. M. I. Hull.
U
8/43 PB120619, Mi\$2.40, Ph\$3.30.
- M-2050 NRL Shock-Fracture Test for Welded Joints in Armor, I.
U
4/43 C. E. Jackson, A. R. Donaldson, F. H. Laxar, F. S. McKenna.
PB118290, Mi\$5.40, Ph\$15.30.
- R-2051 Test on Insulating Material, submitted by Hartford Faience Co.
U
6/43 I. J. E. Martin.
PB109451, Mi\$1.25, Ph\$1.25.
- P-2052 A Study of Rubber Preservatives.
U
4/43 H. W. Stewart, P. King.
PB120621, Mi\$2.40, Ph\$3.30.
- P-2053 A Study of Aromatic Fuel Resistant Tank Lining Compound.
U
4/43 II. S. B. Creelius.
PB120622, Mi\$2.70, Ph\$4.80.
- B-2054 Test on Switches, Multipole Rotary, submitted by Arrow-Hart Hageman Electric Co.
U
5/43 J. S. Bryant.
PB120623, Mi\$2.40, Ph\$3.30.
- P-2055 Aqueous Impregnating Systems of Chlorinated Paraffin and Impregnite S-145. H. W. Fox, G. M. Gantz, W. H. Taylor.
U
5/43
- P-2056 Cancelled (See P-2060).
- O-2057 Gage for Measuring the Thickness of Paint or Any Insulating Material which Overlies a Non-Magnetic Metal. J. E. Dinger.
U
5/43 PB120624, Mi\$2.40, Ph\$3.30.
- P-2058 Dash-Pot Fluid for Stabilized Bombing Approach Equipment.
U
5/43 H. A. Pohl.
PB120625, Mi\$2.40, Ph\$3.30.
- R-2059 Preliminary Report of Plot Room Television System. D. M. Cooper,
U
6/43 J. B. Trevor, Jr.
PB120696, Mi\$2.70, Ph\$4.80.
- P-2060 Variation of Properties of Glycerol-Water Recoil Fluids O. S. 1324 and O. D. No. 1914 with Temperature. C. M. Murphy, Jr., J. M. French.
U
5/43 PB120550, Mi\$2.40, Ph\$3.30.
- H-2061 Daylight Observation of Stars and Planets, IV, A Sextant with Bubble Viewed by One Eye and Celestial Body by the Other. R. Tousey.
U
5/43 PB79463, Mi\$1.00, Ph\$1.00.
- P-2062 The Effect of Chlorinated Saturants on the Mechanical and Electrical Properties of Polyvinyl Chloride Type Insulation.
U
5/43 J. M. Fogelberg, M. A. Elliott.
PB120549, Mi\$2.70, Ph\$4.80.
- P-2063 Substitutes for Toluidine Red Pigment. W. H. Stewart, P. King.
U
5/43 PB120548, Mi\$2.40, Ph\$3.30.
- R-2064 Test of the Model CXBR (SN) Radar, submitted by General Electric Co. J. P. Hagen,
U
12/43 R. B. Meyer, T. McL. Davis.
PB28761, Mi\$2.00, Ph\$6.00.
- P-2065 The Resistance of Impermeable Materials to Penetration by Liquid Vesicant Agents.
U
5/43 J. E. Johnson, W. T. Rainey.
- B-2066 Test on Synchronous Motors, Non-Excited Type, submitted by Holtzer-Cabot Electric Co.
U
6/43 J. S. Bryant.
PB120547, Mi\$2.40, Ph\$3.30.
- H-2067 Portable Ultra-Violet Lantern.
U
5/43 E. O. Hulbert.
PB120593, Mi\$2.40, Ph\$3.30.
- O-2068 Light Armor, XI, Yaw Versus Bullet Protection for Homogeneous Steel Armor Plates, Tipping Screen Data, and a Discussion of 24 ST Aluminum Deflector Plates.
U
5/43 G. R. Irwin, C. H. Kingsbury, A. V. J. Clark.
PB120695, Mi\$3.00, Ph\$6.30.
- H-2069 Geiger Counter Detector of Radioactive Ink. H. Friedman.
U
5/43
- P-2070 A Summary of a Literature and Patent Search on Synthetic Drying Oils. J. S. Strong.
U
5/43 PB120543, Mi\$3.00, Ph\$6.30.
- R-2071 Test of Six Wire Wound Style A, Grade 1, Class II, Fixed Resistors, submitted by Ward Leonard Electric Co. H. A. Brinkman.
U
5/43 PB120542, Mi\$1.80, Ph\$1.80.
- P-2072 The Development of Improved Petroleum Larvacides for Mosquito Control.
U
5/43 D. L. Pickett, W. A. Zisman.
PB120540, Mi\$3.00, Ph\$6.30.
- R-2073 Tests of the SO Radar Equipment, submitted by Raytheon Manufacturing Co. J. P. Hagen,
U
5/44 R. M. Meyer, T. McL. Davis.
PB28774, Mi\$3.00, Ph\$6.00.
- B-2074 Cancelled.
- P-2075 Viscosity Breakdown of Oils.
U
5/43 H. A. Pohl.
PB78601, Mi\$1.00, Ph\$3.00.
- S-2076 The Reflection of a Sound Pulse Normally Incident in a Liquid Medium Upon a Plane Solid Plate.
U
5/43 H. L. Saxton, P. L. Smith.
PB22784, Mi\$1.00, Ph\$1.00.
- B-2077 Test on Switch, Rotary, Type J, submitted by Burkaw Electric Co. J. S. Bryant.
U
6/43 PB120539, Mi\$2.40, Ph\$3.30.
- B-2078 Test on Transformer, Type GF, 100 V.A., submitted by General Electric Co. G. Pida.
U
6/43
- R-2079 General Facility and Constructional Requirements for the Model DAJ Direction Finder Installation. M. K. Goldstein.
U
5/43 PB28762, Mi\$1.00, Ph\$2.00.
- B-2080 Test on Annunciators - Four Drop, submitted by Edwards and Co.
U
7/43 D. T. Scuderi.
PB116254, Mi\$2.00, Ph\$2.75.
- R-2081 Operational Tests of Special "Chaff" Developed by Radio Research Laboratory, Harvard University (Supplementary Information for RRL Engineers Harvard University, Cambridge, Mass.). L. V. Blake,
U
4/43 L. R. Philpott.
PB120694, Mi\$2.40, Ph\$3.30.
- B-2082 Test on Contact Maker, Type L, submitted by Henschel Corp.
U
6/43 F. W. Jank.
- B-2083 Test on Horn, Proposed Types H-10 and H-11. (Manufacturer's Type WP-1), submitted by Maslo Marine Manufacturing Co.
U
6/43 J. S. Bryant.
- B-2084 Test on Engine Order Telegraph System Removed from USS LAFAYETTE (AP 53).
U
8/43 P. H. Roeser, G. Pida.

- O-2085 Hardness and Ballistic Performance of Six Face Hardened Armor Plates. A. J. Hodges, A. B. J. Clark, R. L. Kahler.
U
6/43
- P-2086 The Development of False Target Shell Mark I.
U
6/43 J. A. Grand, D. S. Burgess.
- M-2087 Partial Report on the Effect of Alloying Elements on the Hardenability of Steel. I. R. Kramer, R. H. Hafner, S. L. Toleman, R. B. DeAntonio.
U
5/43 PB109450, Mi\$2.25, Ph\$5.00.
- R-2088 Tests of the Mark 10 Radar, submitted by Western Electric Co.
U
6/43 J. P. Hagen, R. B. Meyer, T. McL. Davis.
PB122671, Mi\$8.10, Ph\$27.30.
- R-2089 Tests of the Mark 11 Fire Control Radar Equipment - Preproduction Model No. 2, submitted by General Electric Co. J. P. Hagen, R. B. Meyer, T. McL. Davis.
U
6/43 PB120693, Mi\$7.80, Ph\$25.80.
- B-2090 Test on Contact Maker, Type K-2, submitted by Betts and Betts Corp. J. S. Bryant.
U
8/43
- B-2091 Cancelled.
- M-2092 The Effect of Quenching Temperature on the Results of the End-Quench Hardenability (Jominy) Test. A. L. Christenson, E. C. Neilson.
U
6/43 PB120522, Mi\$2.70, Ph\$4.80.
- R-2093 Tests of the Model SF Radar, submitted by The Submarine Signal Co. J. P. Hagen, R. B. Meyer, T. McL. Davis.
U
7/43 PB28760, Mi\$4.00, Ph\$11.00.
- R-2094 Tests of the Model SE Radar Serial No. 1, submitted by Western Electric Co. J. P. Hagen, R. B. Meyer, T. McL. Davis.
U
7/43 PB28718, Mi\$4.00, Ph\$11.00.
- R-2095 The Design and Development of an Effective Wide-Range Airborne Radar Jamming Equipment. H. M. Bryant, R. E. White.
U
6/43 PB28819, Mi\$1.00, Ph\$3.00.
- P-2096 A Method for the Estimation of the Aromaticity of Aviation Gasolines, II. A. D. Swensen.
U
6/43 PB120523, Mi\$3.00, Ph\$6.30.
- S-2097 The German Sound-Controlled Torpedo. An Analysis of its Probable Mode and Range of Operations and of Suitable Countermeasures. H. C. Hayes.
U
6/43
- B-2098 Test on Transformer Type G.F., 200 VA, submitted by Dongan Electric Co. G. Pida.
U
8/43
- R-2099 Effects on Shipboard of HF, DF, Radar and Homing Performance Installing of Their Antennas on a Common Mast. A. G. Loveberg.
U
12/43 PB123270, Mi\$2.40, Ph\$3.30.
- P-2100 Cancelled.
- P-2101 Investigation of Methyl Silicone Polymer Fluids. I. Applicability as Damping Liquids. J. M. French, M. F. Kirby, C. M. Murphy, Jr.
U
6/43 PB120521, Mi\$3.00, Ph\$6.30.
- R-2102 Operational Tests of Model MA Radar Equipment, submitted by Westinghouse Electric and Manufacturing Co. J. Viosich, R. T. Wilson, M. F. Distad.
U
5/43 PB28705, Mi\$1.00, Ph\$2.00.
- B-2103 Test on Horn, Type H-5a, submitted by Sparks-Withington Co. J. S. Bryant.
U
7/43
- B-2104 Test on Bells, Type B-1 and B-2, submitted by Federal Electric Co., Inc. D. T. Scuderi.
U
7/43 PB120519, Mi\$2.40, Ph\$3.30.
- B-2105 Test on Shatterbond Coating, submitted by Wilbur and Williams Co. F. M. Holcomb, Jr., P. J. Loatman.
U
7/43 PB120520, Mi\$2.70, Ph\$4.80.
- P-2106 Oxygen Source Material, XIV, The Production of Potassium Carbonate on a Pilot Plant Scale. A. S. Lehmann.
U
7/43 PB22579, Mi\$.50, Ph\$4.00.
- M-2107 Determination of Germanium in Steel. A. Weissler.
U
7/43 PB120524, Mi\$1.80, Ph\$1.80.
- O-2108 Scale Model Tests of High Temperature, High Pressure Steam Piping - CV-9 Class Vessel. T. E. Pardue, P. Symonds, I. Vigness.
U
7/43 PB120572, Mi\$3.00, Ph\$6.30.
- P-2109 The Chemical De-Leading of Gasoline. D. E. Neunherz.
U
7/43 PB120525, Mi\$2.40, Ph\$3.30.
- P-2110 Cancelled.
- R-2111 Test on Insulating Material, submitted by General Electric Co. J. E. Martin.
U
7/43 PB120527, Mi\$1.80, Ph\$1.80.
- R-2112 Test on Insulating Material, submitted by Hartford Falence Co., II. J. E. Martin.
U
7/43 PB120526, Mi\$1.80, Ph\$1.80.
- S-2113 The Propagation of Underwater Sound at Low Frequencies as a Function of the Acoustic Properties of the Bottom. J. M. Ide, R. F. Post, W. J. Fry.
U
8/43 PB22785, Mi\$2.00, Ph\$12.00.
- B-2114 Propeller Shaft Revolution Indicator System, submitted by Bendix Aviation Corp. G. Pida, P. H. Roesser.
U
8/43
- R-2115 Test of Model CXCK Pulse Communication Equipment, submitted by Federal Telephone and Radio Lab. C. E. Cleeton, R. B. Meyers, T. McL. Davis.
U
7/43 PB120692, Mi\$3.90, Ph\$10.80.
- R-2116 Tests of the Mark 9 Radar Equipment, submitted by Western Electric Co. J. P. Hagen, R. B. Meyer, T. McL. Davis.
U
7/43 PB28763, Mi\$2.00, Ph\$7.00.
- B-2117 Test of Plywood Pedestal, submitted by Frank Sneadaker & Co. P. J. Loatman, C. H. Grogan.
U
7/43 PB120528, Mi\$2.70, Ph\$4.80.
- B-2118 Test on Bell, Type B-3, submitted by Auth Electrical Specialty Co. D. T. Scuderi.
U
8/43
- B-2119 Test of Bell, Type B-4, submitted by Schwarze Electric Co. J. S. Bryant.
U
8/43
- R-2120 Test on Insulating Material, submitted by Victor Insulators, Inc. J. E. Martin.
U
7/43 PB120530, Mi\$1.80, Ph\$1.80.
- R-2121 Test of Insulating Material, submitted by Porcelain Insulator Corp. J. E. Martin.
U
7/43 PB120531, Mi\$1.80, Ph\$1.80.
- H-2122 The Optics of Paints. The Emissivity at 700° F of Sberwin-Williams, McCloskey and Dupont Heat Resisting Aluminum Paints. J. A. Sanderson.
U
7/43 PB120529, Mi\$2.40, Ph\$3.30.
- M-2123 Summary Report on the Heat Treatment of Stockless Anchors. K. L. Clark.
U
7/43 PB120532, Mi\$3.00, Ph\$6.30.
- P-2124 A Study of Impregnite Particle Size. H. R. Billica, G. M. Gantz, W. H. Taylor, H. W. Carhart.
U
7/43
- P-2125 A Study of Perclene (Tetrachloroethylene) as a Solvent for Use in the Decontamination of Airplanes. J. E. Johnson, E. R. Poor.
U
7/43
- P-2126 Cancelled.

Numerical Index

O-2127 - B-2166

- O-2127 Liquid Thermal Diffusion Research, IV. P. H. Abelson. 7/43
- R-2128 Test on Insulating Material, submitted by Pass and Seymour, Inc. J. E. Martin. PB120533, Mi\$1.80, Ph\$1.80.
- P-2129 Preliminary Investigation of the Silver Oxide-Zinc-Alkali Primary Battery. W. H. Power, T. P. Dirkse. PB120517, Mi\$3.00, Ph\$6.30.
- P-2130 A Method of Production and Determination of Small Quantities of Stibine. S. W. Rabideau, F. S. Thomas. PB63790, Mi\$1.00, Ph\$1.00.
- M-2131 Effects of Tin and Lead on Manganese Bronze: Dinzincification of Manganese Bronze. A. H. Hesse, E. T. Myskowski, B. M. Loring. PB109540, Mi\$2.00, Ph\$3.75.
- R-2132 Test of Insulating Material Mouldarta 192-A, submitted by Westinghouse Electric & Mfg. Co. R. L. McFolin. PB109318, Mi\$1.75, Ph\$2.50.
- R-2133 Test of Insulating Material, submitted by General Ceramics and Steatite Corp. J. E. Martin. PB120518, Mi\$2.40, Ph\$3.30.
- R-2134 Test of Head Telephone Receivers, Type 49016; Head Bands, Type 49028; Diaphragm, Type 49033, Cord, Type 49012C; and Plug, Type 49034A, submitted by Dictograph Sales Corp. J. A. Connor. PB109325, Mi\$1.25, Ph\$1.25.
- B-2135 Test of Tachometer, Type C, Class A, submitted by Sun Mfg. Co. F. W. Jank. PB120589, Mi\$2.70, Ph\$4.80.
- R-2136 Test of Six Wire Wound, Style A, Grade I, Class II, Fixed Resistors, submitted by Industrial Instruments. R. Oras. PB109324, Mi\$1.25, Ph\$1.25.
- R-2137 Operational Tests on Gun Director Mk. 50 Mod. O. First Part. J. J. Fleming, J. H. Wright. PB120701, Mi\$6.00, Ph\$18.30.
- R-2138 Test of Insulating Material, submitted by Star Porcelain Co. J. E. Martin. PB109334, Mi\$1.25, Ph\$1.25.
- M-2139 The Mechanical Properties of Several National Emergency (NE) Steels. S. Siegel. PB109335, Mi\$2.00, Ph\$3.75.
- H-2140 The Optics of Paints: Spectral Reflectivity of Philadelphia Navy Yard Infra-Red Reflecting Deck Paints. J. A. Sanderson.
- P-2141 The Replacement of Tung Oil in Navy Aeronautical Finishing Materials I, Zinc Chromate Primer. S. B. Crecelius, J. S. Strong, W. H. Stewart. PB37964, Mi\$1.00, Ph\$2.00.
- M-2142 Methods of Casting Steel Torpedo Parts. H. F. Bishop, W. H. Johnson. PB109226, Mi\$2.00, Ph\$3.75.
- R-2143 Survey of Techniques for Very-High and Ultra-High Frequency Direction Finding. M. K. Goldstein.
- R-2144 Tests of SH Radar Equipment, submitted by Western Electric Co. J. P. Hagen, R. B. Meyer, T. McL. Davis. PB28772, Mi\$3.00, Ph\$10.00.
- R-2145 Test of Insulating Material, submitted by Illinois Electric Porcelain Co. J. E. Martin. PB120573, Mi\$1.80, Ph\$1.80.
- R-2146 Investigation of Shock and Vibration Effects on the Mk. 4 Radar Equipment. C. B. Cunningham, L. Schlesinger. PB28830, Mi\$5.00, Ph\$14.00.
- M-2147 Hardness Measurement as a Method of Determining Carbon Content of Carbon and Low Alloy Steels. K. L. Clark, N. Kowalcuk. PB109336, Mi\$2.00, Ph\$2.75.
- R-2148 Test of Insulating Material #302, submitted by Globe Union Inc. J. E. Martin. PB109333, Mi\$1.25, Ph\$1.25.
- M-2149 Research on the Weldability of Iron Alloys: Weldability Tests of Silicon-Manganese Steels. G. G. Luther, K. E. Fritz, G. M. Carlton, D. B. Roach. PB18795, Mi\$1.50, Ph\$3.00.
- M-2150 Calculation on the Tensile Strength of Slowly Cooled Steels from the Chemical Composition. I. R. Kramer, P. D. Gorsuch. PB120577, Mi\$2.40, Ph\$3.30.
- B-2151 Test of Thermacote Protective Coating, submitted by Thermacote Co. F. M. Holcomb, Jr. PB109323, Mi\$1.75, Ph\$2.50.
- R-2152 Test of Model TBA-10 Transmitting Equipment, submitted by General Electric Co. M. L. Leppert, A. L. Geoplinger. PB28759, Mi\$3.00, Ph\$9.00.
- P-2153 Oxygen Source Compounds, XV, Review of Canister Developmental Tests Using Alkali Oxides. D. Burgess. PB109322, Mi\$3.00, Ph\$8.75.
- M-2154 Controlled Welding of Medium Alloy Steels, I. C. E. Jackson, M. A. Pugacz, G. J. Siegel, J. O. Mack. PB109321, Mi\$1.75, Ph\$2.50.
- P-2155 Nature and Chemical Stability of Halowax Compounds. K. L. Temple, J. K. Wolfe. PB109319, Mi\$2.00, Ph\$3.75.
- R-2156 Anti-Jam Receivers. I. H. Page.
- R-2157 Shock and Vibration Investigation of Mark 4 Radar Equipment (Main Frame). C. B. Cunningham, L. Schlesinger. PB28732, Mi\$3.00, Ph\$10.00.
- R-2158 Modification of Design of Duty Cyclometer. L. V. Blake. PB28822, Mi\$1.00, Ph\$1.00.
- M-2159 The Effect of Inclusions upon the Ballistic Performance of 1½ and 2½ Inch Armor Plate. I. R. Kramer, J. H. Goodyear. PB120700, Mi\$2.40, Ph\$3.30.
- R-2160 Systems Tests of the SL Radar, submitted by Western Electric Co. J. P. Hagen, R. B. Meyer, T. McL. Davis. PB109326, Mi\$5.50, Ph\$17.50.
- R-2161 Multi-Engine Synchronizer for Aircraft. K. L. Curtis, L. R. Philpott. PB28729, Mi\$1.00, Ph\$1.00.
- S-2162 A Pressure-Actuated Device for Arming Mines. H. M. Trent, W. W. Stifler.
- M-2163 NRL Shock-Fracture Test for Welded Joints in Connection with Welding Test #302. Part II. A. R. Donaldson, F. H. Laxar, F. S. McKenna. PB109329, Mi\$2.50, Ph\$5.25.
- B-2164 Test of Transformer - Type GF - 200 VA, submitted by Westinghouse Electric and Mfg. Co. F. M. Holcomb, Jr., G. Pida.
- P-2165 The Laboratory Evaluations of Hydraulic Oils. I., Methods for Inflammability Test. M. V. Sullivan, R. W. Miller, J. K. Wolfe.
- B-2166 Wind Intensity Indicating System Type "C," submitted by Bendix Aviation Corp. G. Pida, P. H. Rosser.

B-2167 - R-2212

Naval Research Laboratory

- B-2167 Test on Horns, Types H-3 and
U H-4, submitted by Edwards and
10/43 Co., Inc. J. S. Bryant.
- B-2168 Cancelled.
- B-2169 Cancelled.
- P-2170 Development of Perchloric Acid
U Battery for Use with the Marine
10/43 Corps Trans-Receiver.
J. H. Baldwin, W. H. Power.
PB57695, Mi\$1.00, Ph\$3.00.
- R-2171 Test of Model CXCA Radar Equip-
U ment, submitted by General
9/43 Electric Co. R. C. Guthrie,
T. McL. Davis.
PB120699, Mi\$4.50, Ph\$12.30.
- B-2172 Study of Liquid Filled Seismo-
U Electric Type Velocity Pick-Up
5/45 for Linear Motion. P. J. Loatman.
- B-2173 Cancelled.
- P-2174 The Detection and Behavior in
U Engines of Sabotage Agents and
11/44 Contaminants such as Waxes,
Gums, and Resins Introduced Into
Gasolines. V. G. Fitzsimmons,
C. M. Murphy, Jr.,
W. A. Zisman.
- H-2175 Equipment and Procedure for
U Testing Near Infra-Red Receivers.
12/43 E. O. Hulbert.
- B-2176 Hydrodynamic Shock Test on Sub-
U marine Underwater Electric Log
1/44 Equipment, submitted by Pitometer
Log Corp. W. W. Rosenberry,
C. H. Grogan.
- P-2177 A Method for the Evaluation of the
U Polishing Abrasion Resistance of
10/43 No-Specular Finishes.
R. L. Benemelis, J. M. Leonard.
PB120578, Mi\$1.80, Ph\$1.80.
- P-2178 Further Studies of MSA Hydrogen
U Eliminator, V. J. J. Lander,
3/44 F. S. Thomas.
- S-2179 Hydrophone Calibration by Ex-
U plosion Waves. J. L. Carter,
4/44 M. F. M. Osborne.
PB23121, Mi\$5.50, Ph\$2.00.
- H-2180 Temperature Gradients in Molded
U Shapes of Corning Infra-Red
10/43 Transmitting Glass. W. R. Holm.
PB120698, Mi\$2.40, Ph\$3.30.
- P-2181 Substitutes for Toluidine Red Pig-
U ment (Final Report).
11/43 W. H. Stewart.
PB120576, Mi\$2.40, Ph\$3.30.
- P-2182 A Study of the Subsurface Method
U of Application of Foam for the
11/43 Extinguishment of Fuel Oil Tank
Fires. H. B. Peterson,
R. S. Ericson, Jr.
PB109328, Mi\$2.75, Ph\$7.50.
- R-2183 Japanese Radar Equipment-C.E.E.
U 211 - Captured on Guadalcanal.
11/43 L. V. Blake.
- R-2184 Japanese Radar Equipment-C.E.E.
U 3088 - Captured on Attu.
11/43 W. F. Main, Jr., L. L. Bonham.
- P-2185 Protective Coatings for Magnesium
U Alloys. W. L. Clark III,
11/43 J. K. Appeldoorn.
PB37969, Mi\$1.00, Ph\$1.00.
- R-2186 Test of Model XBZ(YN) Radio
U Transmitting Equipment,
11/43 R. W. Hayward, Jr.
PB22581, Mi\$5.50, Ph\$3.00.
- R-2187 Jamming Tests at Casco Bay,
U T. H. Chambers, L. R. Philpott.
12/43
- P-2188 Progress in the Study of Protec-
U tive Finishes for Plywood Air-
11/43 planes and Gliders, II.
J. M. Leonard, R. L. Benemelis.
PB120574, Mi\$2.40, Ph\$3.30.
- B-2189 Cancelled.
- R-2190 An Ultra-High Frequency Aircraft
U Receiver using an Electronic
11/43 Power Supply. W. R. Faust.
PB28704, Mi\$1.00, Ph\$1.00.
- O-2191 Statistical Effects in the Testing
U of Materials. A. E. Ruark.
11/43 PB37967, Mi\$1.00, Ph\$3.00.
- O-2192 Tensile Tests of Class B Armor
U Steel with Special Reference to
11/43 Size Effects, II.
R. M. Trimble, P. E. Shearin.
- R-2193 Test of Model YG-1 Homing Bea-
U con Equipment, submitted by
1/44 Stewart-Warner Corp.
G. A. Helwig, L. G. Robbins.
PB120734, Mi\$7.50, Ph\$24.30.
- R-2194 Test of Maintenance of True
U Bearing Attachment for Model
12/43 YG Homing Beacon Equipment,
submitted by RCA.
R. W. Haward, T. W. Hopkinson,
H. R. Johannessen.
PB120735, Mi\$3.30, Ph\$7.80.
- P-2195 Heat Reflecting Coatings for
U Plywood Airplanes and Gliders.
1/44 R. L. Benemelis, J. M. Leonard.
PB109330, Mi\$2.25, Ph\$5.00.
- R-2196 Notes of the General Design of
U Model XBZ(YN) Radio Trans-
11/43 mitting Equipment. W. A. White,
O. Norgorden.
PB120736, Mi\$2.40, Ph\$3.30.
- R-2197 Test of a Frequency Stabilized
U Master Oscillator, submitted by
12/43 RCA. A. D. Watt.
PB28727, Mi\$2.00, Ph\$5.00.
- M-2198 Interpretation of Notched-Bar
U Impact Test. C. E. Jackson,
11/43 M. A. Pugacz, F. S. McKenna.
PB109331, Mi\$2.00, Ph\$3.75.
- H-2199 Near Infra-Red Filter Investi-
U gations, Part I, Infra-Red
11/43 Transmission, Part 2, Visual
Transmission. J. A. Sanderson,
R. Tousey.
- O-2200 A Generating Voltmeter Circuit.
U R. C. Waddell.
11/43
- R-2201 Study of the Radiation Patterns
U of the CW66 AAH Antenna
11/43 (Modified FD Radar Equipment).
R. J. Adams.
PB120737, Mi\$3.30, Ph\$7.80.
- R-2202 Model XAZ Radio Transmitting
U Equipment. F. T. Powles,
2/44 W. E. Withrow.
PB109255, Mi\$2.00, Ph\$3.75.
- R-2203 Resistance to Thermal Change
U Correlation Tests of Ceramic
12/43 Insulating Material, submitted by
American Lava Corp., Star
Porcelain Co., and General
Electric Co. J. A. Conner.
PB109256, Mi\$2.00, Ph\$3.75.
- R-2204 Construction of a Mark III, BL
U Antenna Kit for Use With SC &
1/44 SC-1. C. R. Lundquist,
P. A. Lantz, R. J. Adams.
PB120738, Mi\$2.70, Ph\$4.80.
- O-2205 Closed Cycle Operating Charac-
U teristics of a Diesel Engine.
12/43 L. F. Campbell, W. H. Sanders.
- P-2206 Oleophobic Films Adsorbed From
U Oil Solutions. D. L. Pickett,
11/43 W. A. Zisman.
PB105917, Mi\$2.75, Ph\$7.50.
- R-2207 Cancelled (See R-2212).
- P-2208 Chamber Tests With Human Sub-
U jects: I. Design and Operation
12/43 of Chamber, II. Initial Tests of
Navy Issue Protective Clothing
Against H Vapor.
W. H. Taylor, Jr., H. W. Carhart,
L. D. Daily.
- O-2209 Liquid Filled Seismic Type Ve-
U locity Meter. P. S. Symonds,
12/43 I. Vigness.
PB109253, Mi\$1.75, Ph\$2.50.
- H-2210 Optics of Distilled Water and Nat-
U ural Water. E. O. Hulbert.
10/43 PB109254, Mi\$2.00, Ph\$3.75.
- P-2211 Chloromide Paste Systems for
U Decontamination of Vesicants.
12/43 J. E. Johnson, E. R. Poor.
- H-2212 The 884 Gas Tube as a Noise
U Source. R. A. Richardson.
8/44

Numerical Index

R-2213 - P-2250

- R-2213 Antenna Duplexing
U
1/44 R. A. Herring, Jr.
PB28559, Mi\$1.00, Ph\$3.00.
- H-2214 Exposure Meter for Radiography,
U
1/44 III, Characteristics of Radiation
from One Million Volt X-Ray
Generator. H. Friedman,
E. der Mateosian.
PB109260, Mi\$1.75, Ph\$2.50.
- R-2215 Tests of Insulating Material,
U
2/44 submitted by Corning Glass
Works. J. A. Connor.
PB109261, Mi\$2.00, Ph\$2.75.
- O-2216 Statistical Effects of Tensile
U
1/44 Testing of Copper.
R. M. Squires,
A. E. Ruark.
PB120579, Mi\$2.70, Ph\$4.80.
- R-2217 Captured German Balloon-Borne
U
1/44 Radar Decoy (CEE No. 3442).
W. F. Main, L. V. Blake.
- H-2218 A Non-Destructive Method for
U
1/44 Measuring Wall Thickness of
Pipe from One Side.
H. Friedman, E. der Mateosian,
J. J. Nemecek.
PB109259, Mi\$1.25, Ph\$1.25.
- P-2219 Chamber Tests With Human Sub-
U
1/44 jects, III, Design, Operation,
and Calibration of Chamber for
Exposing Firearms to H Vapor.
W. H. Taylor, Jr.,
H. W. Carhart, E. L. Daily.
- R-2220 Captured Japanese Cable.
U
1/44 L. L. Bonham.
PB28821, Mi\$1.00, Ph\$1.00.
- R-2221 Test of a Special Model DP
U
3/44 Direction Finder Equipment In-
corporating a Balance Amplifier.
H. E. Dinger.
PB28728, Mi\$1.00, Ph\$2.00.
- B-2222 Test of Salinity Indicating Equip-
U
2/44 ment, submitted by McNab of
Bridgeport, Inc.. F. W. Jank,
G. Pida.
PB109258, Mi\$2.50, Ph\$5.25.
- P-2223 A Critical Evaluation of the Per-
U
1/44 formance of the Army M-9
Chemical Warfare Agents Vapor
Detection Kit.
J. A. Krynitsky.
- R-2224 Tests of the Mark 8 Radar Equip-
U
n. d. ment, submitted by Western
Electric Co. J. P. Hagen,
R. B. Meyer,
T. McL. Davis.
PB120739, Mi\$8.70, Ph\$30.30.
- R-2225 Tests of Model SC-2 Radar Equip-
U
1/44 ment, submitted by General
Electric Co. R. C. Guthrie,
R. M. Meyer,
T. McL. Davis.
PB28826, Mi\$4.00, Ph\$11.00.
- H-2226 Effect of Cathode Ray Tube
U
1/44 Screens on Night Vision.
R. Tousey.
PB18800, Mi\$5.50, Ph\$2.00.
- P-2227 Investigation of Silicone Polymer
U
1/44 Fluids, II, Chemical and Physi-
cal Properties of Importance in
Connection with Their Uses as
Lubricants or Hydraulic Fluids.
D. C. Atkins, H. R. Baker,
H. F. Fobes, C. M. Murphy,
H. Shull, M. V. Sullivan, J. K.
Wolfe, W. A. Zisman.
PB122755, Mi\$5.40, Ph\$15.30.
- M-2228 Causes of Porosity and Leakage
U
2/44 in Non-Ferrous Castings: Foundry
Detail for Fuel Boosterpump.
R. H. Brouk.
PB109257, Mi\$1.75, Ph\$2.50.
- R-2229 Interpolation Charts for HF-DF
U
2/44 Shipboard Calibration.
M. K. Goldstein, M. J. Sheets.
PB28816, Mi\$1.00, Ph\$3.00.
- P-2230 The Use of Chemical Materials
U
2/44 as Shark Repellants, I.
J. M. Fogelberg, H. S. Springer,
C. R. Wallace, F. E. Brinnick,
T. S. Taylor, R. L. Tuve.
PB78598, Mi\$1.00, Ph\$3.00.
- H-2231 Experiments with a Light Under
U
2/44 Water: Optical Signalling Ranges
and Visibility in the Sea.
E. O. Hulbert.
PB109269, Mi\$2.25, Ph\$4.00.
- R-2232 Radar Cross Section of Ship Tar-
U
2/44 gets, II. W. S. Ament,
M. Katzin, F. C. Macdonald.
- M-2233 The Suitability of a Black, Iron
U
2/44 Oxide Coating for Chaplets and
Internal Chills. W. H. Johnson,
H. F. Bishop.
PB109265, Mi\$2.00, Ph\$3.75.
- R-2234 Jamming Tests at Naval Research
U
2/44 Laboratory, Chesapeake Bay
Station 13-14 January 1944.
L. R. Philpott.
- H-2235 Geiger Counter Technique for
U
2/44 X-Ray Diffraction, I, Spectrom-
eter for Measuring Powder Dif-
fraction Patterns.
H. Friedman, L. S. Birks.
PB107203, Mi\$2.00, Ph\$3.75.
- O-2236 Scale Model Tests of High-
U
2/44 Temperature High-Pressure
Steam Piping, AV7 Class Vessel
P. Symonds, E. Pardue,
I. Vigness.
PB109267, Mi\$2.00, Ph\$3.75.
- M-2237 Weldability Tests of High Tensile
U
2/44 Steel (Lukens Steel Co.) BuShips
Welding Test No. 325, I.
C. E. Jackson.
PB109268, Mi\$2.25, Ph\$5.00.
- R-2238 A Schering Bridge Method of
U
2/44 Corona Detection in Cables.
R. V. Talbot,
D. C. de Packh.
PB109266, Mi\$2.00, Ph\$3.75.
- P-2239 Chamber Tests with Human Sub-
U
2/44 jects, IV, Tests of Carbon
Clothing against H Vapor.
H. W. Carhart, W. H. Taylor,
Jr., L. E. Daily.
- R-2240 Antennas for Guided Missiles
U
3/44 Countermeasures on Destroyer
Escorts. M. Katzin,
J. T. Bolljahn, P. W. Anderson,
H. E. LaGow.
PB28813, Mi\$2.00, Ph\$4.00.
- R-2241 General Instructions for Guided
U
3/44 Missile Countermeasure Systems.
S. G. Lutz.
- M-2242 Investigation of Controlled Post-
U
5/44 heating for Welding of Medium
Alloy and Aircraft Steels.
C. E. Jackson.
PB109264, Mi\$2.00, Ph\$3.75.
- O-2243 Precipitation Static, III.
U
2/44 R. Gunn.
PB120740, Mi\$2.40, Ph\$3.30.
- P-2244 Further Investigation of Silver
U
3/44 Oxide-Zinc-Alkali Cell.
T. P. Dirkse.
PB63791, Mi\$1.00, Ph\$1.00.
- O-2245 Size Effect in Slow Bend Tests of
U
2/44 Ni-Cr Armor, II.
R. M. Trimble,
P. E. Shearin.
PB39564, Mi\$1.00, Ph\$2.00.
- H-2246 Geiger-Counter Technique for
U
2/44 X-Ray Diffraction, II, Methods
of Determining Thicknesses
of Thin Coatings.
H. Friedman, L. S. Birks.
PB107204, Mi\$1.25, Ph\$1.25.
- H-2247 Test at Cove Point of General
U
2/44 Motors Radiant Heat Detector in
Tracking Landing Craft.
J. A. Sanderson.
- H-2248 Test at Sea of the General Motors
U
2/44 Radiant Heat Detector in Track-
ing a Destroyer.
W. R. M. Holm.
- H-2249 Infra-Red Radiation from Targets
U
2/44 LCT and LCI Employed in Trials
of Ship Detectors at Cape
Henlopen, 21 to 24 Feb. 1944.
J. A. Sanderson.
- P-2250 The Effect of Various Pigments
U
2/44 on the Electrical Properties of
Synthetic Resin Insulation.
A. R. Jones,
M. A. Elliott.
PB109284, Mi\$2.00, Ph\$3.75.

- R-2251 Antennas for Guided Missiles Countermeasures Installed on DD-425 and DD-427. M. Katzin, H. E. LaGow, J. T. Bollhahn. PB28814, Mi\$1.00, Ph\$2.00.
- R-2252 Intercept Ranges Against SD Radar. U T. H. Chambers. 3/44 PB120741, Mi\$1.80, Ph\$1.80.
- R-2253 Improved Antenna for Model YL (XBC) Radio Beacon Equipment. O. Norgorden. 3/44 PB120742, Mi\$3.30, Ph\$7.80.
- R-2254 Tests of Radio Sets SCR 608-A, SCR 609, and SCR 610 U.S. Army F-M Equipment. C. C. Pfitzer, M. F. Hodges. PB109283, Mi\$4.25, Ph\$12.50.
- M-2255 Molding and Casting Technique for Lightweight Anchors. U H. F. Bishop. 3/44 PB109282, Mi\$1.75, Ph\$2.50.
- O-2256 Eddy Current Type Flaw Detectors. VI, Application to Inspection of Ferrous and Non-Ferrous Rods and Tubes. J. E. Dinger. 3/44 PB122754, Mi\$2.40, Ph\$3.30.
- P-2257 Reflection-Reducing Coatings for Optical Surfaces. U P. King, L. Lockhart. 3/44 PB78595, Mi\$1.00, Ph\$2.00.
- M-2258 Research on the Weldability of Iron Alloys. Effect of Electrode Diameter on T-Bend Results. K. E. Fritz, D. R. Roach, J. Davenport, G. G. Luther. PB109286, Mi\$2.25, Ph\$5.00.
- R-2259 Development of Broad Band Amplifier and Modifications of RDA Radio Receiving Equipment. R. E. Ellis, J. H. Craig. PB28832, Mi\$1.00, Ph\$4.00.
- R-2260 Additional Jamming Tests Made at the Naval Research Laboratory, Chesapeake Bay Annex. J. L. Bonham, R. C. Guthrie. 5/44
- R-2261 A Directional Mk3 IFF Antenna for Use with Mk 4 Radar. 4/44 A. D. Hammes, R. J. Adams.
- O-2262 Effect of Plate Temperature on the Performance of Homogeneous Armor. P. H. Bei. 3/44
- O-2263 Velocity Loss of a 1/2-Inch Model Projectile when it Penetrates 1/32-Inch Cold Rolled Sheet Steel. G. D. Kinzer, A. C. Jantzen. PB120743, Mi\$2.40, Ph\$3.30.
- M-2264 Utilization of Fired Cartridge Cases. J. T. Robertson. 2/44 PB109263, Mi\$1.75, Ph\$2.50.
- R-2265 Test of 56Q-2 Transmitting Equipment, submitted by Collins Radio Company. U 4/44 R. D. Epperson, S. M. Rice. PB28773, Mi\$3.00, Ph\$9.00.
- H-2266 A Summary of Measurements on Infra-Red Decoys for Homing Missiles, October 1943 to March 1944. J. A. Sanderson. 3/44
- O-2267 Some Considerations Concerning Vibration Machines and Vibration Measurements. U 3/44 I. Vigness, J. P. Walsh. PR37966, Mi\$1.00, Ph\$2.00.
- R-2268 Models DBC and DBC-1 Direction Finding Equipment. 4/44 D. Williams, P. Z. Guarino.
- P-2269 Progress in the Study of Anti-Fouling Compositions for Protection of Flying Boat Hull Bottom II. P. King, C. L. Barber. PB109252, Mi\$4.25, Ph\$12.50.
- P-2270 A Procedure for the Estimation of Meta- and Para-Cresols in Their Binary Mixture and in Ternary Mixture with Guaiacal. U H. L. Dnsmore. 3/44 PB109262, Mi\$2.00, Ph\$2.75.
- O-2271 The Precipitation Static Problem. IV, A Progress Report on Minneapolis Investigations. U 4/44 R. Gunn. PB120711, Mi\$3.00, Ph\$6.30.
- H-2272 Cancelled (Issued as H-2348).
- P-2273 Properties of Carbide and Carbon Synthetic Polymer B-0-100 Fluids of Interest in Lubrication and Hydraulics. H. R. Baker, H. F. Fobes, G. M. Hain, C. M. Murphy, H. A. Pohl, H. Shull, M. V. Sullivan, K. L. Temple, J. K. Wolfe, W. A. Zisman. 2/44 PB78599, Mi\$3.00, Ph\$8.00.
- P-2274 Replacement of Tung Oil in Resins to be Used in Navy Aeronautical Finishing Materials II. U 7/44 S. B. Crecelius, W. H. Stewart, H. F. Kessler. PB109316, Mi\$3.50, Ph\$10.00.
- O-2275 The Longitudinal Vibrations of a Projectile During Armor Penetration. A. V. H. Masket. 4/44 PB23309, Mi\$5.00, Ph\$4.00.
- O-2276 The Measurement of Forces Which Resist Penetration of STS Armor, Mild Steel, and 24 ST Aluminum. G. D. Kinzer, A. V. H. Masket, J. R. Streeter. 4/44 PB120710, Mi\$3.00, Ph\$6.30.
- M-2277 Weldability Tests of High Tensile Steel. II, Elimination of Cracking Tendency in Welding Navy High Tensile Steel, BuShips, Welding Test No. 325. M. A. Pugacz, J. O. Mack, J. A. Rinebolt, C. O. Worden, C. E. Jackson. 4/44 PB120584, Mi\$2.70, Ph\$4.80.
- H-2278 Photometer for Night Visual Range of Light Lock Openings. E. O. Hulburt, L. H. Dawson, E. S. Estey. 4/44
- 2279 Not issued as complete report.
- O-2280 Precipitation-Static Problem, U V. W. C. Hall. 4/44
- O-2281 Precipitation Static, VI. U R. Gunn. 5/44 PB120709, Mi\$2.70, Ph\$4.80.
- O-2282 An Eddy Current Method for Inspection of Shell Cases. U 4/44 J. E. Dinger, J. O. Grantham. PB109320, Mi\$1.75, Ph\$2.50.
- B-2283 Test of Dummy Log Equipment, Type DL-40. P. H. Roeser. 5/44 PB120585, Mi\$3.00, Ph\$6.30.
- B-2284 Cancelled.
- R-2285 Investigation of the REL Model 575-BC Loran Transmitter, submitted by Radio Engineering Labs., Inc. M. V. Hoover. 5/44 PB109307, Mi\$4.25, Ph\$12.50.
- M-2286 Cancelled.
- P-2287 Progress on Standard Paints and Finishes for Radio and Underwater Sound Gear. U 5/44 R. D. Freriks, J. A. Suther. PB109435, Mi\$1.75, Ph\$2.50.
- P-2288 Spectrophotometric Determination of Percent Conjugation of Drying Oils. J. B. Ballentine, S. B. Crecelius, D. L. Moesta. 9/44 PB109436, Mi\$1.75, Ph\$2.50.
- R-2289 Features of Design, Preparation and Use of Naval Window. U 5/44 T. D. Hanscome. PB109437, Mi\$3.50, Ph\$10.00.
- O-2290 Penetration of Face-Hardened Bullet Proof Armor by Solid Cal. .27 Bullet. U 5/44 G. D. Kinzer, J. R. Streeter. PB120708, Mi\$2.40, Ph\$3.30.
- R-2291 The Modification and Test of the Model CXFR Jamming Transmitter. W. F. Main, Jr., L. V. Blake. 5/44 PB123271, Mi\$2.70, Ph\$4.80.
- P-2292 Identity Tests for Plasticizers of the Type Used in Polyvinyl Chloride Plastics. A. R. Jones, L. B. Lockhart, M. A. Elliott. 4/44 PB120583, Mi\$3.30, Ph\$7.80.

- O-2293 Influence of Duration of Impact
U
5/44 on Damage to Some Elastic
Systems. P. Symonds,
I. Vigness.
PB23119, Mi\$1.50, Ph\$2.00.
- R-2294 Installation and Operation of
U
5/44 Mark 4 Mod. 1 Serial 285 Radar
Equipment on the USS MURPHY,
DD603, C. B. Cunningham,
L. Schlesinger.
PB120707, Mi\$2.70, Ph\$4.80.
- R-2295 Radar Cross Section of Ship Tar-
U
6/44 gets, III. W. S. Ament,
M. Katzin, F. C. Macdonald.
- O-2296 Size Effect in Slow Bend Test
U
5/44 on Ni-Cr Steel, III.
R. M. Trimble, P. E. Shearin,
H. N. Michie.
PB37970, Mi\$1.00, Ph\$3.00.
- P-2297 A Study of Chlorinated Paraffin
U
5/44 as the Binding Agent for Pro-
tective Clothing Impregnated by
the Aqueous Process.
T. G. Custer, M. J. Curry,
G. M. Gantz, W. H. Taylor, Jr.
- O-2298 Influence of Electric Field on
U
5/44 Aerodynamic Drag Coefficient.
R. Gunn.
PB23134, Mi\$1.50, Ph\$1.00.
- R-2299 Test of Experimental Model of an
U
6/44 Electronic Chronometer, Serial
No. 3. F. C. Kahler.
- P-2300 A Study of S-330 as an Impreg-
U
6/44 nate for Permeable Protective
Clothing. H. W. Fox,
G. M. Gantz, W. H. Taylor, Jr.
- M-2301 The Hardenability of Cast Steel.
U
6/44 K. L. Clark, J. H. Richards.
PB109459, Mi\$2.25, Ph\$5.00.
- M-2302 Substitute Solders of 85-15 Lead-
U
5/44 Tin Types.
J. B. Russell, J. O. Mack.
PB109508, Mi\$3.00, Ph\$8.75.
- H-2303 Some Devices for Measuring
U
6/44 Atmospheric Attenuation of Light.
R. Tousey, H. Friedman,
E. O. Hulbert.
PB120744, Mi\$2.40, Ph\$3.30.
- R-2304 A 700 Mc Experimental Jammer
U
5/44 Modulated at I.F. Frequency.
K. W. Bewig.
- S-2305 Relative Pressure Measurements
U
6/44 in Shock Waves from Small Under-
water Explosions.
M. F. M. Osborne, A. H. Taylor.
PB23122, Mi\$1.00, Ph\$7.00.
- M-2306 NRL Shock-Fracture Test for
U
5/44 Welded Joints in Connection with
Welding Test No. 302, III.
F. S. McKenna, F. H. Laxar.
PB123323, Mi\$2.40, Ph\$3.30.
- P-2307 Characteristics of the Perchloric
U
6/44 Acid Battery. R. T. Pierce,
J. H. Baldwin, R. L. McMurtrie,
W. H. Power.
PB23124, Mi\$1.00, Ph\$4.00.
- P-2308 The Laboratory Evaluation of
U
9/44 Hydraulic Oils. II. New Fluids
Having Good Inflammability
Characteristics. M. V. Sullivan,
J. K. Wolfe.
- O-2309 Precipitation-Static Problem,
U
6/44 VIII. J. R. Clement, Jr.
PB90865, Mi\$1.00, Ph\$2.00.
- M-2310 Steel Castings for Aircraft.
U
6/44 H. F. Bishop.
PB123322, Mi\$2.40, Ph\$3.30.
- P-2311 Finishes for Plywood Aircraft
U
6/44 and Gliders, III. J. M. Leonard,
R. L. Benemelis, H. F. Kessler.
PB123321, Mi\$2.70, Ph\$4.80.
- R-2312 Antenna Pattern Measurements
U
6/44 on USS MT. MCKINLEY (AGC-7).
W. B. Burgess, R. C. Guthrie,
J. P. Hagen.
PB120745, Mi\$4.50, Ph\$12.30.
- R-2313 An Expendable 100 Mc Radar
U
6/44 Jammer. R. A. Carpenter.
- P-2314 Submarine Hydrogen Detectors.
U
6/44 S. W. Rabideau, G. W. Work,
F. S. Thomas.
PB123375, Mi\$5.40, Ph\$15.30.
- P-2315 The Evolution of Hydrogen from
U
6/44 Dry Cells and Methods of Pre-
vention of Explosions in Closed
Battery Containers. M. H. Boyer.
PB23175, Mi\$1.50, Ph\$2.00.
- R-2316 Notes on the Modification of the
U
7/44 Models YE and YG Homing Bea-
con Equipments for Increased
Security. T. W. Hopkinson,
H. R. Johannessen.
- O-2317 Characteristics on Short Radius
U
6/44 Tube Bends, I. T. E. Pardue,
P. S. Symonds, I. Vigness.
PB113622.
- R-2316 Comparison of Model CXCR and
U
6/44 Model CXCR-1 Portable Radio
Transmitting-Receiving Equip-
ments. R. D. Epperson,
S. M. Rice, M. F. Hodges.
PB28724, Mi\$4.00, Ph\$13.00.
- P-2319 Rain Repellant Coatings.
U
6/44 O. D. Shreve.
PB122753, Mi\$3.90, Ph\$10.80.
- P-2320 Small Scale Gasoline Engine Tests
U
6/44 Using the Carbide and Carbon
Chemical Corporation's New Syn-
thetic Lubricant. 250B-0-100.
V. G. Fitzsimmons, R. O. Militz.
PB78604, Mi\$1.00, Ph\$2.00.
- M-2321 Molding Sand Testing Technique -
U
7/44 Investigation of Effect of Rammer
Support on Physical Properties.
R. E. Morey.
PB123391, Mi\$2.70, Ph\$4.80.
- P-2322 The Evaluation of Activated Car-
U
7/44 bon as an Anti-Vesicant Agent in
Protective Clothing.
H. R. Billica, G. M. Gantz.
- R-2323 Antenna Pattern Measurements
U
7/44 on USS WASATCH (AGC-9).
W. B. Burgess, R. C. Guthrie,
J. P. Hagen.
PB120746, Mi\$3.90, Ph\$10.80.
- R-2324 Antenna Pattern Measurements
U
7/44 on USS MT. OLYMPUS (AGC-8).
W. B. Burgess, R. C. Guthrie,
J. P. Hagen.
PB120747, Mi\$4.50, Ph\$12.30.
- M-2325 Weldability Test of High Tensile
U
7/44 Steel. (BuShips Welding Test
No. 324 & 325), III. G. G. Luther,
F. S. McKenna, F. H. Laxar,
J. H. Goodyear, K. E. Fritz.
PB109507, Mi\$2.50, Ph\$6.25.
- R-2326 An Amplifier Standardizing Air-
U
7/44 craft Interphone Equipment.
P. R. G. Verbeke.
PB123392, Mi\$2.40, Ph\$3.30.
- R-2327 Models DBB & CXGA Direction
U
7/44 Finding Equipment.
P. A. Guarino.
PB120748, Mi\$3.00, Ph\$6.30.
- M-2328 The Thermal Behavior and Iron-
U
7/44 Mechanical Properties of Iron-
Manganese and Iron-Manganese-
Nickel Alloys, III. I. R. Kramer,
S. L. Toleman, W. T. Haswell.
PB109332, Mi\$2.50, Ph\$6.25.
- P-2329 The Storage Stability of Aviation
U
7/44 Gasoline in Copper Flashed
Drums. A. K. Roebuck,
W. D. Dunn.
PB120759, Mi\$2.70, Ph\$4.80.
- R-2330 The Development and Test of
U
8/44 Model TEA Jamming Transmitter.
S. G. Lutz, F. T. Powles,
A. L. Howard.
PB28833, Mi\$2.00, Ph\$6.00.
- O-2331 Projectile Shock on Aircraft
U
7/44 Armor Supports, I.
E. W. Kammer, I. Vigness.
PB120706, Mi\$2.70, Ph\$4.80.
- R-2332 Radar Cross Section of Ship Tar-
U
7/44 gets, IV. W. S. Ament,
M. Katzin, F. C. Macdonald.
- R-2333 TDY Jamming Tests. I. H. Page.
U
7/44 (Appendix I: Interference Due to
Pulse Transmission.
J. M. Miller).

P-2334 - P-2371

Naval Research Laboratory

- P-2334 Oxygen Source Material. XVI., U Potassium Production by a Combination Reduction-Distillation Reaction between Sodium and Molten Potassium Salts. C. R. Witschonke. PB109112, Mi\$2.50, Ph\$6.25.
- M-2335 Design for Test Coupons for Steel Casting. U 7/44 H. F. Bishop, R. C. Wayne. PB109424, Mi\$2.50, Ph\$5.25.
- M-2336 The Thermit Process for the Production of Steel for Castings. U 7/44 R. C. Wayne.
- R-2337 A Comparison of Two Proposed U MK III-G IFF Antennas for Use with Model SM Radar. 8/44 P. A. Lantz, R. J. Adams.
- R-2338 Type Test of Model TDT VHF U Transmitting Equipment, Serial 3/45 83. L. G. Robbins, C. B. Davis. PB28815, Mi\$2.00, Ph\$7.00.
- H-2339 The Chemical Treatment of Silver U Chloride Sheets to Produce Filters Transmitting the Far Infra-Red. P. S. Smith. PB120586, Mi\$2.40, Ph\$3.30.
- M-2340 A High Speed Dialometer and the U Transformational Behavior of Six Steels (BuShips Welding Test No. 329). A. L. Christenson, E. C. Nelson. PB109289, Mi\$2.00, Ph\$3.75.
- M-2341 Chemical Analysis of Manganese U Bronze. H. Ravner. 5/44 PB120582, Mi\$2.40, Ph\$3.30.
- P-2342 The Vapor Lock and Freezing U Point Characteristics of Methyl Alcohol-Ethyl Alcohol-Water De-Icing Fluids. G. S. Gordon. 7/44 PB109290, Mi\$2.50, Ph\$5.25.
- P-2343 Tropical Wearing Trials of Pro- U tective Clothing. L. E. Daily, 8/44 H. W. Cahari, G. M. Gantz, W. H. Taylor.
- P-2344 Development of Test Method for U Estimating Solvent Power and Aromatic and Naphthenic Content of Thinners Used in Navy Aeronautical Finishes, I. D. E. Neumherz. 8/44 PB109291, Mi\$2.25, Ph\$5.00.
- B-2345 Cancelled.
- R-2346 Measurement of Ground Constants U by Wave Tilt, Using Horizontal 8/44 Polarization. M. G. Cheney, Jr.
- R-2347 Analysis of Japanese Airborne U Radar Equipment Captured at 8/44 Hollandia on 22 April 1944. R. E. White, P. A. Hoffman, C. M. Russell. PB28827, Mi\$1.00, Ph\$3.00.
- H-2348 Atmospheric Transmission of U Infrared Radiation. 7/44 E. O. Hulburt.
- R-2349 A Lobe Switching Mark III IFF U Antenna for Mark IV Radar Equip- 1/45 ment. L. R. Dobler, R. J. Adams.
- R-2350 Development of Mark III IFF U Antenna for Mark XII Radar 9/44 Equipment. L. R. Dobler, L. J. Money, R. J. Adams.
- R-2351 Investigation of Window Types for U S-Band Use. T. D. Hanscome. 3 45
- M-2352 Research on Weldability of Iron U Alloys. The Bead-Weld Nick- 9/44 Bend Test for Weldability. F. H. Laxar, K. E. Fritz, D. B. Roach, F. S. McKenna, J. Davenport, M. A. Riddle, G. G. Luther. PB109292, Mi\$2.50, Ph\$6.25.
- M-2353 Research on the Weldability of U Iron Alloys. Development of 9/44 Manganese Silicon High Tensile Steels. G. G. Luther, F. H. Laxar, K. E. Fritz, J. A. Rnebolt, J. O. Mack, M. A. Riddle, D. B. Roach, J. Davenport, F. S. McKenna. PB110811, Mi\$2.50, Ph\$6.25.
- B-2354 Test on Salinity Indicating Equip- U ment, submitted by Blake Marine 9/44 Instrument Co. C. C. Tinstman, Jr. PB120581, Mi\$3.00, Ph\$6.30.
- B-2355 Test on Salinity Indicating Equip- U ment, submitted by Instrument 9/44 Laboratory, Inc. C. C. Tinstman, Jr. PB120580, Mi\$3.00, Ph\$6.30.
- R-2356 Development of an Adaptor to U Give Simultaneous Radar and 9/44 D. F. Signals on the PPI of a Radar System. J. W. Fraumann, P. A. Guarino. PB109292, Mi\$1.75, Ph\$2.50.
- M-2357 The Causes for Porosity and U Leakage in Non-Ferrous Cast- 8/44 ings: The Effects of Nickel, Zinc and Lead on the Mechanical Properties of Nickel-Tin Bronze Containing Five Percent Tin. R. L. Fox, R. H. Brouk, B. M. Loring. PB109444, Mi\$2.00, Ph\$3.75.
- R-2358 Test of Model TDO Transmitting U Equipment, submitted by Collins 9/44 Radio Co. E. L. Hurd, A. L. Geoppinger. PB28824, Mi\$4.00, Ph\$12.00.
- P-2359 A Method of Analysis for Anti- U Oxidant in the New Synthetic 8/44 B-0-100 Lubricants. H. A. Pohl. PB120757, Mi\$2.40, Ph\$3.30.
- B-2360 Test on Underwater Log Equip- U ment Impeller Type, submitted 11/44 by Bendix Aviation Corp. P. H. Roeser. PB120588, Mi\$3.00, Ph\$6.30.
- R-2361 German Ground Radar Equipment U Transmitter T-106 (Freya) CEE 9/44 3443 Captured on Ventotene Island, Gaeta Gulf, Italy. C. A. Debel, L. V. Blake. PB120705, Mi\$3.00, Ph\$6.30.
- O-2362 Depth Charge Tests of USS U DRAGONET (SS 293), Displace- 9/44 ments, Relative Maximum Displacements, and Impact Measurements. I. Vigness, S. G. Holt, V. Braemer.
- M-2363 Relaxation of NAX-9115 and U SAE-4130 Alloy Steels. 10/44 F. A. Brandt, E. A. Rominski, W. O. Baker. PB109445, Mi\$2.00, Ph\$3.75.
- P-2364 A Controlled Laboratory Experi- U ment to Compare Lesions Re- 9/44 sulting from Applications of Mustard, Lewisite, and Nitrogen Mustards to the Skin of the Forearms of Humans. L. E. Daily, J. W. Clark, B. N. Stolp, J. C. Conner, Jr.
- R-2365 Guided Missiles Countermeas- U ures, Band C Antenna. 11/44 D. Wilson, R. E. Taylor, H. E. LaGow.
- R-2366 Radio Assault Beacon. U C. E. Okonski. 9/44 PB120704, Mi\$2.70, Ph\$4.80.
- R-2367 Operational Performance of U Special Radio Facilities Aboard 9/44 Air-Rescue Boat C-36163. M. K. Goldstein, A. Brodzinsky. PB120703, Mi\$3.00, Ph\$6.30.
- R-2368 Audio-Frequency Sweep Equip- U ment. R. G. Mills. 9/44 PB120702, Mi\$3.00, Ph\$6.30.
- P-2369 Recommendations for Specifica- U tions Covering Wrinkle Finishes 10/44 for Radio and Radar Equipment. R. D. Freriks, J. A. Suther, D. L. Moesta. PB99153, Mi\$2.25, Ph\$5.00.
- R-2370 Development of Search Antennas U for 75-300 Mc/s and 300-1000 11/44 Mc/s Band. D. Williams, P. A. Guarino. PB17581, Mi\$5.00, Ph\$3.00.
- P-2371 Coatings of Low and High Reflec- U tivity for Optical Surfaces. 9/44 L. B. Lockhart, Jr. PB78591, Mi\$2.00, Ph\$4.00.

Numerical Index

O-2372 - R-2415

- O-2372 Vibration of Long Beams Caused
U by Transverse Impacts.
9/44 I. Vigness, P. S. Symonds,
E. Kammer.
PB79465, Mi\$1.00, Ph\$2.00.
- P-2373 The Use of Chemical Materials as
U Shark Repellents, Final Report.
9/44 J. M. Fogelberg.
PB109473, Mi\$2.00, Ph\$3.75.
- M-2374 Causes of Porosity and Leakage
U in Non-Ferrous Castings: The
9/44 Distribution of Mechanical
Properties in Sand Cast Bronze.
R. H. Brouk, R. G. Hardy.
PB109534, Mi\$2.00, Ph\$3.75.
- M-2375 Investigation of Aluminum-Silver
U Alloys System: Mechanical Prop-
9/44 erties, Age Hardening, and Cor-
rosion Resistance of Some
Aluminum Alloys Containing Two
to Three Percent Silver.
W. H. Baer.
PB120758, Mi\$2.70, Ph\$4.80.
- O-2376 Some Dynamic Hardness Tests
U on Plastics. A. J. Hodges.
9/44 PB120749, Mi\$3.60, Ph\$9.30.
- O-2377 Electrical Resistance Changes
U in Fine Wires Subjected to Plas-
9/44 tic and Elastic Elongations.
T. E. Pardue, E. Kammer,
I. Vigness.
PB22580, Mi\$.50, Ph\$3.00.
- P-2378 The Thermal Insulation and Cor-
U rosion Protection of Range
3/45 Finders, I. J. S. Strong,
M. O. Yeiter.
PB107852, Mi\$2.50, Ph\$5.25.
- M-2379 Research on Weldability of Iron
U Alloys: Weldability Tests of Cast
3/45 Steel. F. S. McKenna,
K. E. Fritz.
PB109327, Mi\$2.25, Ph\$4.00.
- R-2380 Investigation of Methods for the
U Simplifications of Carrier Fre-
11/44 quency Measurements on the
AN/APR-1, and AN/SPR-1
Receivers. L. W. Boothby,
P. A. Guarino.
PB28828, Mi\$1.00, Ph\$4.00.
- R-2381 Preliminary Tests of Model
U AN/SPT-6 Jamming Transmitter.
11/44 L. L. Bonham, K. M. Watson,
L. V. Blake.
- R-2382 Preliminary Test of a Doppler
U Device for Observing Through
11/44 Window on the Mark IV.
M. P. Gaffney, I. H. Page.
- R-2383 Type Tests of AN/APA-17A Air-
U borne Radar Direction Finding
11/44 Equipment.
P. R. Camp, P. A. Guarino.
PB28703, Mi\$1.00, Ph\$2.00.
- R-2384 Type Test of Model AN/CPN-6
U Transponder Beacon Equipment,
10/44 Serial 1: CGG (Transmitter
Portion). H. L. Wuerffel.
PB28706, Mi\$1.00, Ph\$3.00.
- R-2385 Cancelled.
- R-2386 Test of CXGA Shipborne Radar
U Direction Finding Equipment.
11/44 P. R. Camp, P. A. Guarino.
PB120750, Mi\$2.40, Ph\$3.30.
- P-2387 A Study of Materials for Sea
U Markers. F. E. Brinnick.
11/44 PB109520, Mi\$2.00, Ph\$3.75.
- R-2388 Type Tests of AN/APA-17 Air-
U borne Radar Direction Finding
11/44 Equipment. P. R. Camp,
P. A. Guarino.
PB28707, Mi\$1.00, Ph\$2.00.
- P-2389 The Anodic Behavior of Zinc
U Alloys Used to Protect Steel in
11/44 Sea Water, I.
G. S. Gordon.
- R-2390 Tests of Captured German Wanze
U G-2 Panoramic Receiver and
10/44 Circular-Dipole Antenna.
G. J. Perlow, L. E. Shoemaker,
D. Wilson.
PB120751, Mi\$3.30, Ph\$7.80.
- M-2391 The Effect of Boron Trichloride
U Gas, Tin, Lead and Iron on the
9/44 Grain Size and Mechanical
Properties of Manganese Bronze.
W. J. Richmond.
PB109519, Mi\$1.75, Ph\$2.50.
- R-2392 Investigation of Anti-Jam
U Receivers for Search Radar.
11/44 T. H. Chambers.
- M-2393 Iron-Manganese-Nickel Alloys
U for Heavy Armor and Forgings.
11/44 I. Kramer, S. L. Toleman,
W. T. Haswell, Jr.
PB120756, Mi\$2.40, Ph\$3.30.
- R-2394 Cancelled. (Issued as
RA3A217A.)
- R-2395 Cancelled. (Issued as
RA3A229A.)
- R-2396 Cancelled.
- M-2397 The Causes of Porosity and Leak-
U age in Non-Ferrous Castings:
11/44 Foundry Details of Air Ram
Cylinder. J. T. Robertson,
R. L. Fox, R. G. Hardy.
PB109518, Mi\$1.75, Ph\$2.50.
- R-2398 The Development of a Magnetron
U Transmitter for Jamming in the
11/44 Range of 80 to 380 Megacycles.
J. H. Markell.
PB120712, Mi\$2.70, Ph\$4.80.
- M-2399 Causes of Porosity and Leakage in
U Non-Ferrous Casting: A Summary
10/44 of the Literature on the Effects of
Gases in Bronze.
R. A. Colton.
- R-2400 Antenna Pattern Measurements
U USCGC SPENCER. W. B. Burgess,
11/44 R. C. Guthrie, J. P. Hagen.
PB120713, Mi\$3.60, Ph\$9.30.
- R-2401 Cancelled.
- R-2402 Cancelled.
- H-2403 Approximate Theory of Low
U Reflecting Films. E. O. Hulburt.
11/44 PB23641, Mi\$.50, Ph\$2.00.
- M-2404 Heat Treatment of Cathode Ray
U Tube Shields.
11/44 I. R. Kramer, L. M. Punskey.
PB120755, Mi\$2.70, Ph\$4.80.
- M-2405 Survey of Published Methods Sut-
U table for the Determination of
11/44 Gases in Brass and Bronze.
A. Weissler.
- P-2406 Wearing Trials of Protective
U Clothing at Lejeune, N.C.
11/44 T. G. Custer, G. M. Gantz.
- R-2407 Model EF-4 Gas Engine Generator
U Equipment. A. L. Howard.
11/44 PB109526, Mi\$3.50, Ph\$10.00.
- H-2408 Infrared Radiation by USS
U BREEMAN During Tests at Sea
11/44 of SSD. J. A. Sanderson.
PB123272, Mi\$2.40, Ph\$3.30.
- R-2409 Cancelled.
- R-2410 Model TCS Equipment Keying
U Tests. G. Abraham,
12/44 R. B. Quinn.
PB17580, Mi\$.50, Ph\$3.00.
- R-2411 Development of a 90 to 150 Mega-
U cycle Antenna. W. R. Bliss,
12/44 E. K. Vick, W. A. Douglas.
PB28831, Mi\$1.00, Ph\$2.00.
- O-2412 Size Effect in Armor Steels and
U Other Metals. A. E. Ruark,
11/44 R. M. Trimble, P. E. Shearin,
H. N. Michie.
- P-2413 A Flexible Anti-Fouling Paint
U Adaptable to Immersed Rubber
12/44 Components. A. L. Alexander.
PB109527, Mi\$2.00, Ph\$3.75.
- O-2414 Shock Characteristics of the
U American War Standard Shock
12/44 Testing Mechanism for Electrical
Indicating Instruments.
I. Vigness.
PB123377, Mi\$2.70, Ph\$4.80.
- R-2415 Test Installation of RDO Receiver
U Search Antennas. D. Williams,
12/44 P. A. Guarino.
PB123273, Mi\$3.00, Ph\$6.30.

- M-2416 Causes of Porosity and Leakage in Non-Ferrous Castings: The Heat Treatment of Leaky Bronze Castings for Improving Pressure Tightness. F. L. Riddell. PB120754, Mi\$2.70, Ph\$4.80.
- R-2417 Preliminary Report on 719-B Oscillator. W. R. Bliss. 12/44
- R-2418 Investigation of Irregular Keying of Radar to Reduce Interception. T. H. Chambers. PB123274, Mi\$3.30, Ph\$7.80.
- P-2419 A Method for Gasoline Inhibitor Analysis. A. K. Roeback, 11/44 H. L. Dinsmore.
- R-2420 Cloverleaf Broad Band Antenna for Horizontal Polarization. 1/45 R. A. Carpenter. PB28716, Mi\$1.00, Ph\$1.00.
- R-2421 The AN/ARW-17 Receiver. U C. H. Smith, Jr., M. W. Rosen, 12/44 C. H. Hoepfner. PB123268, Mi\$3.30, Ph\$7.80.
- H-2422 The Doppler Frequency Change in Radiation Reflected from the Waves of the Sea. E. O. Hulburt. 12/44 PB107845, Mi\$1.75, Ph\$2.50.
- R-2423 Performance Tests and Modifications of the Model TDY Radar Jamming Transmitter. 12/44 K. M. Watson, C. J. Zaander, L. V. Blake. PB123267, Mi\$4.80, Ph\$13.80.
- R-2424 Search Radar and IFF Antennas with Search Receivers. 12/44 J. W. Fraumann, J. R. Shoemaker, R. E. Davis, P. A. Guarino. PB123275, Mi\$4.50, Ph\$12.30.
- R-2425 Type Test of Model YE-1 Homing Beacon Equipment, Serial 53. 2/45 C. B. Okonski, H. R. Johannessen. PB123266, Mi\$7.50, Ph\$24.30.
- R-2426 Frequency Spectra and Band Widths of Amplitude-Modulated Radio Telegraph Transmissions. 12/44 B. Salzberg. PB109537, Mi\$2.25, Ph\$4.00.
- R-2427 The Naval Research Laboratory Pulse Control System (XBA-XBB). 9/44 C. H. Hoepfner, J. C. Seddon, C. H. Smith, Jr. PB26723, Mi\$3.00, Ph\$7.00.
- R-2428 The Mark 33 Radar System. U M. G. Pawley. 7/45 PB123264, Mi\$2.40, Ph\$3.30.
- R-2429 XBF Search Radar Equipment. U W. R. Faust, J. E. Gall, 1/45 D. M. Lowe. PB28820, Mi\$2.00, Ph\$4.00.
- P-2430 Method for Measuring the Corrosion of Copper by Electrical Insulating Varnishes. 1/45 E. G. Meyer, A. R. Jones, T. Coor, R. W. Sloan. PB123374, Mi\$2.40, Ph\$3.30.
- P-2431 The Silver Oxide-Zinc-Alkali System as the Basis for a Secondary Battery. T. P. Dirkse. 2/45 PB63792, Mi\$1.00, Ph\$2.00.
- R-2432 Development of an Experimental Radar Countermeasures Transmitter Employing the L-600N Triode as Oscillator, 260-1000 Megacycles. J. H. Markell. 1/45 PB28725, Mi\$1.00, Ph\$2.00.
- R-2433 Test of a Magnetron Transmitter for Jamming in the Range of 80 to 380 Megacycles. F. T. Powles. 1/45
- H-2434 Geiger Counter Technique for X-Ray Diffraction. III., Particle Size Determination from X-Ray line Broadening. L. S. Birks. 12/44 PB107374, Mi\$2.25, Ph\$5.00.
- R-2435 Considerations in the Tactical Use of Centimeter Wave Radar Jamming Systems. 1/45 R. B. Higdon, J. E. Gibson.
- M-2436 Spectrophotometric Determination of Titanium in Steels. 12/44 A. Weissler. PB109538, Mi\$2.25, Ph\$5.00.
- R-2437 Antenna Pattern Measurement on USS AUBURN (AGC-10). 1/45 W. B. Burgess, R. C. Guthrie, J. P. Hagen. PB123241, Mi\$3.90, Ph\$10.80.
- R-2438 Cancelled.
- P-2439 The Physical and Chemical Properties of Commercially Available Oils Adaptable to the Replacement of Tung Oil in Synthetic Resins. S. B. Crecelius, D. L. Moesta, J. B. Ballentine. 1/45 PB109535, Mi\$1.75, Ph\$2.50.
- P-2440 The Survey of Two-Coat Reflection-Reducing Films. 1/45 L. B. Lockhart, Jr. PB78594, Mi\$1.00, Ph\$3.00.
- R-2441 Brief Description of "Christopher" Warning Receiver, CDE-46ADZ. 1/45 F. G. Berghoefer.
- R-2442 Analysis and Operational Characteristics of Japanese Airborne Radar Equipment Captured at Saipan. P. F. O'Neill, G. S. Kan, C. M. Russell. 2/45 PB123265, Mi\$3.90, Ph\$10.80.
- R-2443 Window Types for Naval Use in the Frequency Range 90-3000 Mc. J. S. Klein. 3/45
- P-2444 A Study of Non-Toxic Composition for the Prevention of Fouling. U R. L. Benemelis. 1/45 PB109469, Mi\$2.50, Ph\$6.25.
- R-2445 A Continuously Variable, Single Crystal, Decade Frequency Generator, Frequency Range: 10 to 300 Mc/s. 1/45 R. S. Badessa, W. E. McDowell. PB109505, Mi\$2.00, Ph\$3.75.
- B-2446 Cancelled.
- R-2447 Notes on the Design of Flat Screens for UHF Directive Antennas. L. R. White. 2/45 PB28708, Mi\$1.00, Ph\$2.00.
- R-2448 Tests on TDY-1a Antenna. U C. Domenicalli, M. Sheppard. 2/45 PB109525, Mi\$1.75, Ph\$2.50.
- M-2449 The Use of the Cumulative Curve for Foundry Sand Control. 1/45 R. E. Morey. PB110810, Mi\$2.25, Ph\$5.00.
- R-2450 Operational Performance of Japanese Radar C. E. E. 3088 (Mk. I Mod. 1 Rev. 1). 3/45 L. L. Bonham. PB28709, Mi\$1.00, Ph\$2.00.
- M-2451 Cancelled.
- R-2452 Reconditioning of Captured Japanese Equipment - Type 92 Mk. 3 Low Frequency Transmitter Modification I (CEE-5149). 4/45 R. R. Zirm. PB123260, Mi\$2.40, Ph\$3.30.
- M-2453 NRL Shock Fracture Test for Welded Joints in Connection with Qualifications of Unionmelt Welding of STS Armor, IV. 1/45 F. S. McKenna, F. H. Laxar. PB109524, Mi\$2.00, Ph\$3.75.
- M-2454 Apparatus for Measuring Rapid Cooling Rates. W. T. Haswell. 6/46 PB123394, Mi\$2.40, Ph\$3.30.
- R-2455 Tests of Model TDY Radar-Jamming Transmitter with Z-666 Magnetron and CAKZ-66AJT Antenna. K. M. Watson, L. V. Blake. 2/45 PB123261, Mi\$2.40, Ph\$3.30.
- R-2456 Standards Test Procedure for A.J. Receivers. U T. H. Chambers. 1/46
- P-2457 An Emulsion Paste System for Decontamination of Vesicants. 2/45 E. R. Poor, J. E. Johnson.
- R-2458 Impedance Measurements and Radiation Patterns on a TDY/RDO Antenna System. U E. F. Kulikowski. 2/45 PB28710, Mi\$1.00, Ph\$3.00.

Numerical Index

R-2459 - R-2502

- R-2459 Preliminary Report on a High Stability Mixer. E. F. McClain.
U
2/45 PB123262, Mi\$1.80, Ph\$1.80.
- R-2460 Development of a High Power Wide Band Noise Modulator.
U
5/45 R. S. Badessa, B. W. Graham.
PB123263, Mi\$1.80, Ph\$1.80.
- R-2461 Modification of Radar Mk. 8 Precision Sweep and Change of Bearing Lanes, Final Report. A. C. Grosvenor.
U
2/45 PB109523, Mi\$1.75, Ph\$2.50.
- P-2462 The Study of Plywood Finishing Systems Applicable to Airplanes and Gliders. IV.
U
2/45 R. L. Benemelis, J. M. Leonard.
PB109522, Mi\$1.75, Ph\$2.50.
- P-2463 Impregnation of Protective Clothing in the Piece Goods.
U
2/45 H. W. Fox, G. M. Gantz.
- P-2464 Chamber Tests with Human Subjects. V., Army Chamber Exposures to HN Vapors.
U
3/45 H. W. Carhart, W. H. Taylor, Jr.
- R-2465 Development and Test of Type CAPU-24325 Transmitter Selector Switch for Use with Model TEA Equipment. F. T. Powles.
U
3/45 PB28722, Mi\$1.00, Ph\$1.00.
- R-2466 Radar Cross Section of Ship Targets. V.
U
3/45 F. C. Macdonald.
- R-2467 Radar Cross Section of Ship Targets. VI.
U
4/45 W. J. Barr.
- R-2468 Model TDQ Transmitter.
U
3/45 J. A. Edinborgh.
PB28721, Mi\$3.00, Ph\$9.00.
- R-2469 Flight Investigations of Suitable HF/DF Collector Locations on a PV-1 Navy Patrol Bomber.
U
2/45 M. K. Goldstein, J. W. Green.
PB28720, Mi\$1.00, Ph\$2.00.
- R-2470 A Comparison of Noise AM Jamming with "Dina" Noise Jamming. O. D. Sledge.
U
2/45 PB123364, Mi\$2.40, Ph\$3.30.
- O-2471 Preliminary Torsion Meter Investigation. F. I. Loukes, Jr., R. H. Koester, T. H. Herring.
U
2/45 PB23174, Mi\$.50, Ph\$4.00.
- R-2472 Investigation of Security of "Blanket" Communication System.
U
2/45 C. M. Simpson, S. R. Thrift.
- R-2473 Type Test Model AN/URA-T2 Training Attachment.
U
3/45 G. A. Helwing, M. L. Leppert.
PB28719, Mi\$2.00, Ph\$4.00.
- P-2474 Anti-Rust Additives for Lubricating, Power Transmission and Protective Oils. H. R. Baker, W. A. Zisman.
U
2.45 PB78602, Mi\$3.00, Ph\$9.00.
- P-2475 Failure of Electronic Equipment Under Tropical Service Conditions. J. M. Leonard.
U
2.45 PB109521, Mi\$1.25, Ph\$1.25.
- M-2476 The Investigation of Alternates of Tin for Metallic Coatings for Radio Hook-Up Wires. J. B. Russell.
U
1.45 PB109528, Mi\$2.75, Ph\$7.50.
- S-2477 Corrosion and Fouling of Sonar Equipment. I. J. W. Fitzgerald, M. S. Davis, B. G. Hurdle.
U
3.47 PB123395, Mi\$3.00, Ph\$6.30.
- O-2478 Longitudinal Stresses in Pipe Bends Caused by Bending. T. E. Pardue.
U
2.45 PB123396, Mi\$2.70, Ph\$4.80.
- R-2479 Test of Model XRBE and XRBC Radio Receiving Equipments.
U
4.45 E. Toth, F. C. Isely, G. H. Burbage.
PB28764, Mi\$6.00, Ph\$20.00.
- R-2480 A Study of Radar Anti-Clutter Devices for Naval Use.
U
3.45 I. H. Page.
- P-2481 Investigation of Silicone Polymer Fluids. III. Performance as Hydraulic Fluids in Gear Pumps. V. G. Fitzsimmons, R. O. Militz.
U
3.45 PB109545, Mi\$2.00, Ph\$3.75.
- M-2482 The Effect of Tin on Cast Steels.
U
3/45 K. L. Clark, D. J. Carney.
- P-2483 Chamber Test with Human Subject. VI., Arm Chamber Exposures to L Vapor.
U
5/45 W. H. Taylor, Jr., H. W. Carhart.
- R-2484 SK-2 Performance Test.
U
3/45 C. F. Althouse, R. A. Herring, Jr.
PB28823, Mi\$1.00, Ph\$1.00.
- O-2485 Mechanical Shock Characteristics of the Armor High Impact Machine for Electronic Devices (Armour Research Foundation Machine #1). I. Vigness.
U
3/45
- R-2486 Development of the Antenna (Identification) Mk. I Mod. O. P. A. Lantz, A. D. Hammes, R. J. Adams.
U
3/45 PB123362, Mi\$3.30, Ph\$7.80.
- P-2487 Oxygen Source Material, XVII., The Production of Potassium on a Pilot Plant Scale by a Combination Reduction-Distillation Reaction between Sodium and Molten Potassium Salts. C. T. Ewing, C. R. Witschonke.
U
8/45 PB23401, Mi\$1.00, Ph\$4.00.
- R-2488 The Suitability of the IFF. Transmission Line in Various Radar Pedestals for Use with IFF Mark V.
U
3/45 C. R. Lundquist.
- P-2489 Sonar Corrosion and Fouling. II. First Report on the Adaptation of Anti-Fouling Paints for Use on Underwater Components of Sound Gear. A. L. Alexander.
U
3/45 PB78597, Mi\$1.00, Ph\$2.00.
- R-2490 Test of Jamming Transmitter Using L600N Tube in the Range of 200 to 1000 Megacycles. F. T. Powles.
U
4/45 PB123361, Mi\$2.40, Ph\$3.30.
- R-2491 Cancelled.
- P-2492 Tropical Deterioration of Materials for Electronic Equipment. I., Plasticizers. D. M. Molnar, J. M. Leonard.
U
4/45 PB120764, Mi\$3.30, Ph\$7.80.
- R-2493 Preliminary Report on S- and X-Band Propagation in Low Ducts Formed in Oceanic Air.
U
3/45 M. Katzin.
PB28829, Mi\$1.00, Ph\$2.00.
- H-2494 Dazzling Effects of Reflected Sunlight. E. O. Hulburt.
U
4/45 PB23135, Mi\$.50, Ph\$2.00.
- R-2495 Nomograms for Calculating Minimum Jamming Range for Ships. W. W. Carter.
U
5/45
- O-2496 Projectile Shock on Aircraft Armor Supports, II. E. W. Kammer.
U
3/45 PB123360, Mi\$2.70, Ph\$4.80.
- O-2497 Mechanical Shock Characteristics of the High Impact Machine for Electronic Devices (Naval Research Laboratory Machine #1). I. Vigness, E. W. Kammer, S. Holt.
U
3/45
- R-2498 The Dependence of the Effectiveness of Clipped-Noise Jamming on the Radar Receiver Bandwidth. K. M. Watson.
U
7/45 PB123359, Mi\$2.40, Ph\$3.30.
- P-2499 Investigation of Silicone Polymer Fluids. IV., Some Performance Characteristics and a Unilaterally Loaded Journal Bearing. R. O. Militz, J. E. Brophy.
U
4/45 PB123386, Mi\$2.70, Ph\$4.80.
- P-2500 Correlation of Congo-Red-S-328 and DB-3 Test Papers with Human Skin. J. E. Johnson, H. W. Carhart.
U
3/45
- S-2501 Pro-Submarine Program of Sound Division, NRL.
U
4/45 H. C. Hayes.
- R-2502 Comparison of Jamming Effectiveness at 200 Megacycles of Types AN/APT-1 and AN/APQ-2 Airborne Radar Jammers. W. F. Main, E. M. Lonsdale.
U
4/45 PB123358, Mi\$2.40, Ph\$3.30.

- P-2503 An Investigation of the Possibility of Using the Alkali or Alkaline Earth Metals as the Active Material in a Battery. T. P. Dirkse. PB63793, Mi\$1.00, Ph\$2.00.
- R-2504 Cancelled.
- H-2505 The Radiation Temperature of the Sky and the Sea Horizon. V. W. Myers, P. S. Smith. PB123357, Mi\$2.70, Ph\$4.80.
- H-2506 Thermal Signal Due to the Reflection of Sky Radiation by the Sea. W. R. Holm. PB123356, Mi\$3.90, Ph\$10.80.
- R-2507 Development of Mk 12 A-J Receiver. T. H. Chambers. 11/45 PB120714, Mi\$3.00, Ph\$6.30.
- R-2508 Some Fundamentals of A-J Design for Radar Receivers. T. H. Chambers. PB123355, Mi\$3.60, Ph\$9.30.
- R-2509 Method of Reducing the Minimum Observable Signal in Presence of Noise. O. D. Sledge. PB28765, Mi\$1.00, Ph\$2.00.
- P-2510 Methods for the Determination of the Vesicant Agent Content of Contaminated Carbon Clothing. W. H. Taylor, Jr., A. J. Stokes, H. W. Carhart.
- R-2511 Development of an Experimental Directive Response Homing System. R. W. Hayward. PB123354, Mi\$2.70, Ph\$4.80.
- R-2512 Circularly Polarized Antenna for 2500 to 3500 Mc Frequency Range. M. Heusinkveld, H. F. Carlson. PB123353, Mi\$2.70, Ph\$4.80.
- O-2513 Scale Model Test of Main Steam Piping for CVB41 Class Vessel. T. E. Pardue, P. S. Symonds. PB109482, Mi\$2.00, Ph\$3.75.
- P-2514 The Use of the Humidity Cabinet in the Acceptance Testing of Corrosion Preventive Compounds. W. C. Sierichs, T. P. May. PB109539, Mi\$2.25, Ph\$5.00.
- M-2515 Weldability of Reynolds R301T Wrought Aluminum Alloy. W. R. Ablett, Jr. PB109481, Mi\$2.00, Ph\$3.75.
- R-2516 Vee Corner Absorbers. W. H. Weber. 4/45 PB123352, Mi\$2.40, Ph\$3.30.
- H-2517 Geiger Counter Technique for X-Ray Diffraction. IV., Detailed Considerations of Experimental Conditions. L. S. Birks. PB107375, Mi\$2.50, Ph\$6.25.
- P-2518 An Examination of Toxic Agents for Fungicidal Coating Materials. I. W. M. Whaley, W. L. Clark, J. M. Leonard. PB112523, Mi\$2.50, Ph\$6.25.
- R-2519 Airborne Television - Results of Test of High Sensitivity Conversion Unit CRV-59AAG, Serial I, for Models ATJ or ATK Television Equipment. H. Gordon, L. L. George, S. Ruccobono. PB28766, Mi\$1.00, Ph\$2.00.
- R-2520 Test of Sleeve and Whip Antennas Aboard LST-998. 5/45 L. R. White. PB123389, Mi\$3.30, Ph\$7.80.
- P-2521 Stabilizers for Permeable Protective Clothing. 5/45 F. S. Cluthe, H. R. Billica, G. M. Guntz.
- R-2522 Radar-Simulation of Naval Surface Targets by Towed-Balloon-Borne Reflectors. W. S. Alderson.
- P-2523 A Humidity Vessel for Laboratory Evaluation of Electrical Components. W. M. Whaley, J. M. Leonard. PB109337, Mi\$1.25, Ph\$1.25.
- R-2524 Radar Cross Section of Ship Targets. VII. W. S. Ament. 5/45 W. J. Barr, F. C. Macdonald.
- R-2525 A Circuit for Generating Very Short Pulses with a Large Harmonic Content for Use in the XCU-1. L. D. Hindall. PB122643, Mi\$2.40, Ph\$3.30.
- R-2526 Interim Report on Airborne Radio. Results of Engineering Tests of Model AN/ARR-15(XN-1) Serial No. I MHP Radio Communications Receiver, submitted by the Collins Radio Co. D. R. Schwarz, R. C. Miedke, S. Ruccobono. PB122644, Mi\$3.90, Ph\$10.80.
- P-2527 Preparation of Type ASC Charcoal in a Pilot Unit. 4/45 J. A. Farrington, Jr.
- P-2528 Chamber Tests with Human Subjects. VII., The Effect of Concentration of H. Vapor and Time of Exposure on the Protection Afforded by CC-2 Impregnated Clothing. W. H. Taylor, H. W. Carhart, J. H. Heinen.
- V-2529 The Use of the General Radio Type 761A Vibration Meter for the Measurement of Vibrational Displacement. C. B. Cunningham, P. J. Loatman, W. J. Mueller. PB2751b Mi\$1.50, Ph\$2.00.
- P-2530 Investigation of Silicone Polymer Fluids, V., Performance as Hydraulic Fluids in Piston Pumps. V. G. Fitzsimmons, D. L. Pickett, R. O. Miltz. PB123398, Mi\$2.40, Ph\$3.30.
- O-2531 Bend Testing at Ballistic Speed. I., Technique and Survey of Typical Results. H. L. Smith, A. E. Ruark.
- O-2532 Bend Testing at Ballistics Speeds, II., Test of Magnesium Alloys and 24ST Aluminum. H. L. Smith, A. E. Ruark.
- R-2533 Test of Model TEA Radio Transmitting Equipment. 5/45 G. O. Newcomb. PB28767, Mi\$1.00, Ph\$3.00.
- H-2534 Radiation Temperature of the Sky: Variation with Altitude Above Sea Level. W. R. Holm. 5/45
- R-2535 A-J Video Filters for the Radar Mark 12 Receiver. 5/45 L. Riebman. PB122645, Mi\$2.70, Ph\$4.80.
- R-2536 Production and Standardization of the Electromagnetic Waves within Shielded Rooms. K. O. Hornberg. PB123381, Mi\$3.00, Ph\$6.30.
- H-2537 Low-Reflecting Film of Gilsontite for Increasing the Transmission of Silver Chloride at 8-13 μ . P. S. Smith, J. A. Sanderson. PB123390, Mi\$2.40, Ph\$3.30.
- R-2538 Guided Missiles Kinematics. U. H. E. Newell, Jr. 5/45 PB120339, Mi\$7.20, Ph\$22.80.
- H-2539 Variable Density and Variable Color Filters for Use with Radar Screens to Preserve Dark Adaptation. R. Tousey. PB23136, Mi\$.50, Ph\$2.00.
- P-2540 The Development of a Chemical Agents Detector Kit. 6/45 J. A. Krynskiy.
- P-2541 A Laboratory Evaluation of Lubricating Oils for Naval Fire Control Equipment. 5/45 D. C. Atkins, H. R. Baker, H. F. Fobes, D. T. Jones, C. M. Murphy, Jr. PB23137, Mi\$.50, Ph\$2.00.
- R-2542 Antenna Pattern Measurements on USS MENDOCINO (APA-100). 5/45 M. Katzin. PB122646, Mi\$3.60, Ph\$9.30.
- R-2543 A Study of the Procedures and Equipment Used for Setting Radar "Spot Jammers" on Frequency. 7/45 K. M. Watson.

Numerical Index

R-2544 - P-2583

- R-2544 Cancelled.
- R-2545 Laboratory Tests of Japanese
U Mark 4 Model 3 Radar Trans-
5/45 mitter and Power Supply Units.
L. L. Bonham, E. M. Lonsdale.
PB122648, Mi\$2.70, Ph\$4.80.
- R-2546 Convergence Effects in Reflec-
U tions from Tropospheric Layers.
6/45 W. W. Carter.
PB28768, Mi\$1.00, Ph\$1.00.
- R-2547 Test on Experimental Unit Pro-
U jection Plan Position Indicator
6/45 Repeater, Model VG-2 Serial No.
X2, Type GG-55AFL.
C. C. Mezger, E. N. Munzer.
PB122647, Mi\$2.70, Ph\$4.80.
- R-2548 Airborne Radio Control - Results
U of Engineering Tests of R-64
6/45 ARW-17 Equipment.
A. E. Bakanowski, S. C. Hennis,
S. Riccobono.
PB28770, Mi\$1.00, Ph\$1.00.
- R-2549 Electronically Scanned Panoramic
U Receiver (5-100 Kc).
6/45 G. J. Perlow, J. R. Zimmerman,
G. A. Johnson, G. M. Mathiesen.
PB109315, Mi\$2.75, Ph\$7.50.
- R-2550 Test of Tracking Accuracy of Gun
U Director Mk 37 with Radars Mk
6/45 28 Mod 0 and Mk 22 Mod 0.
M. S. McVay.
PB122649, Mi\$3.90, Ph\$10.80.
- R-2551 Modification of JM-1 Sono-Buoy
U Equipment for Use in Torpedo
8/45 Timing. J. R. Kauke.
PB122650, Mi\$2.40, Ph\$3.30.
- R-2552 Flight Tests of a Ground
U Speed Indicator.
6/45 C. L. Estes, J. E. Gibson.
- R-2553 Antenna Pattern Measurements
U on USS DADE (APA-99).
6/45 M. Katzin.
PB122651, Mi\$3.60, Ph\$9.30.
- R-2554 Analysis and Specifications of
U Simultaneous Lobing System
7/45 Tab. J. B. Trevor, Jr.,
A. E. Hastings.
- R-2555 Analysis of Lengthening of
U Modulated Repetitive Pulses.
7/45 S. C. Kleene.
PB123393, Mi\$2.40, Ph\$3.30.
- M-2556 The Evaluation of Preheat and
U Post-Heat-Treatment of Welds
3/46 and Thin Sections of Steel NE 8630.
I. C. Mattson, C. E. Hartbower.
PB123373, Mi\$2.70, Ph\$4.80.
- R-2557 Tests of Pulse Forming Networks.
U P. F. Ordnung, R. L. McFolin.
6/45 PB28769, Mi\$1.00, Ph\$1.00.
- P-2558 The Substitution of Chlorinated
U Synthetic Rubber for Chlorinated
6/45 Rubber in the Formulation of
Anti-Fouling Paints.
A. L. Alexander.
PB109339, Mi\$2.25, Ph\$5.00.
- R-2559 Development of XBF-1 L-Band
U Radar Equipment.
6/45 A. A. Varela, T. H. Chambers,
H. W. Lance.
- M-2560 Study of Brittleness in an 18-Inch
U Class B Armor Plate by Means
6/45 of High Velocity Fracture Test.
I. R. Kramer, W. T. Haswell,
H. L. Smith.
PB23223, Mi\$5.50, Ph\$2.00.
- R-2561 Accuracy of Range Tracking
U Through Window Aided by Modula-
5/45 tion with Radar Mk. 12.
A. E. Hastings.
- O-2562 A Constant Time Interval Reference
U Potential Indicator as Applied to
6/45 R-C Coupled Amplifiers.
E. W. Kammer.
PB109311, Mi\$1.75, Ph\$2.50.
- S-2563 Transmission, Reflection and
U Guiding of an Exponential Pulse
5/45 by a Steel Plate in Water. I.,
Theory. M. F. M. Osborne,
S. D. Hart.
PB109426, Mi\$2.50, Ph\$6.25.
- S-2564 Transmission, Reflection, Diffrac-
U tion, and Guiding of an Exponential
7/45 Pulse by a Steel Plate in Water. II.,
Experiment. M. F. M. Osborne,
S. D. Hart.
PB16085, Mi\$1.00, Ph\$4.00.
- R-2565 S- and X-Band Propagation in
U Low Ocean Ducts.
7/45 R. W. Baughman, W. Bunnian.
- M-2566 Some Observations of the Reli-
U ability of the Clip Test for
5/45 Weldability Evaluation.
J. A. Rinebolt, J. O. Mack.
PB109340, Mi\$2.00, Ph\$3.75.
- M-2567 Controlled Directional Solidifi-
U cation in Non-Ferrous Castings
6/45 by the Use of Insulating Materials.
W. C. Wick.
PB123371, Mi\$3.30, Ph\$7.80.
- O-2568 Nylon Cloth Laminates for Light
U Armor. I.
6/45 R. E. Roberson, G. R. Irwin.
- R-2569 Comparative Operational Tests
U of Radar Systems Mark 33, SO-
6/45 12M, SO-7M, Using Various Sur-
face and Aircraft Targets.
K. D. Miller, Jr.
PB122652, Mi\$3.30, Ph\$7.80.
- P-2570 The Persistence of H and HN on
U Carbon Clothing.
7/45 H. W. Carhart, W. H. Taylor, Jr.,
A. J. Stokes, J. H. Heinen.
- P-2571 An Investigation of Methods for
U the Preparation of Diborane.
7/45 D. S. Burgess, S. H. Smith,
K. J. Hayes, E. R. Weidlein,
F. H. Baldwin, B. J. Todd,
W. W. Reynolds.
- R-2572 Radar Jamming by Rotating
U Reflectors. R. Latter.
6/45
- P-2573 The Synthesis of Esters of Di-
U basic Acids for Use in the Devel-
6/45 opment of Lubricants.
R. W. Miller, P. N. Craig,
J. K. Wolfe.
PB110896, Mi\$2.75, Ph\$8.75.
- R-2574 Comparison of a Hydrogen Thy-
U ratron Modulator with the Peter-
7/45 son Coil Modulator of the Mk. 8
Radar. P. F. Ordnung.
PB122784, Mi\$2.40, Ph\$3.30.
- R-2575 A Theoretical Analysis of the
U Possibilities of Direction Find-
7/45 ing on Induction Fields from
Power Lines. M. G. Cheney,
J. R. Snow.
PB122785, Mi\$2.40, Ph\$3.30.
- P-2576 Synthetic Lubricants from
U Branched Chain Diesters.
7/45 D. C. Atkins, H. R. Baker,
H. Kidder, C. M. Murphy, Jr.,
H. Shull, P. W. Taylor,
W. A. Zisman.
- H-2577 Metal Bolometers of Short Time
U of Response and High Sensitivity.
7/45 H. S. Stewart, V. W. Myers.
W. D. Walker.
PB120715, Mi\$3.00, Ph\$6.30.
- P-2578 Chemical Investigation of Amine
U Nitrite Vapor Phase Inhibitors.
7/45 K. L. Temple, J. K. Wolfe.
PB30250, Mi\$1.00, Ph\$2.00.
- P-2579 Chamber Tests with Human Sub-
U jects. IX. Basic Tests with H Vapor.
8/45 J. H. Heinen, H. W. Carhart,
W. H. Taylor, B. N. Stolp, J. C.
Conner, Jr., N. M. Clausen.
- P-2580 Some Characteristics of the Sil-
U ver Oxide-Zinc-Alkali Primary
7/45 Cell. R. T. Pierce, T. P. Dirksen.
PB120762, Mi\$4.50, Ph\$12.30.
- R-2581 Airborne Television - Results of
U Test of Type CIK-59 AAF - Con-
7/45 version Unit for Model ATJ or
ATK Television Equipment.
L. L. George, H. Gordon.
PB16888, Mi\$5.50, Ph\$2.00.
- R-2582 Mechanical Oscillator with Syn-
U chro Output. C. F. White.
7/45 PB28771, Mi\$1.00, Ph\$2.00.
- P-2583 A Study of Sag Resistances of Hot
U Plastic Anti-Fouling Paint.
7/45 S. B. Crecelius, D. Moesta.
PB109338, Mi\$2.00, Ph\$3.75.

- R-2584 Type Approval Test of AN/ARR-
U 16B Radio Sono Buoy Receiver.
8/45 J. R. Kauke.
PB122786, Mi\$2.40, Ph\$3.30.
- M-2585 Chromizing of Steels.
U L. M. Punskey.
8/45 PB107847, Mi\$2.00, Ph\$3.75.
- R-2586 Performance Test of CXFA
U Transmitter and 527 Vacuum
7/45 Tube. R. A. Herring, Jr.
PB28818, Mi\$1.00, Ph\$3.00.
- R-2587 Resistance Capacitance Low-
U and High-Pass Filters.
2/45 C. F. White.
PB103611, Mi\$4.25, Ph\$12.50.
- O-2588 Scale Model Test of High-
U Temperature, High-Pressure
7/45 Steam Piping, DD692 Class
Vessels. T. E. Pardue,
L. A. Parsons.
PB120763, Mi\$2.40, Ph\$3.30.
- R-2589 The Development of the AN/UPT-
U T3 Training Equipment.
7/45 P. A. Caldwell, J. D. Rice.
PB28817, Mi\$1.00, Ph\$1.00.
- P-2590 Chamber Tests with Human Sub-
U jects. X., Protection Afforded
9/45 CC-2 Impregnated Clothing Under
Various Conditions of Exposure.
W. H. Taylor, H. W. Carhart,
J. H. Heinen.
- P-2591 Investigation of Cuprous Oxide
U Anti-Fouling Paint. I., Chemical
8/45 Composition of Pigment.
J. B. Ballentine, L. Jasewicz,
A. L. Alexander, W. H. Stewart.
PB109114, Mi\$3.50, Ph\$10.00.
- P-2592 The Anodic Behavior of Zinc
U Alloys Used to Protect Steel in
7/45 Sea Water. G. S. Gordon,
C. E. Black, T. P. May.
- R-2593 Waveguide Rotating Joint for
U Xb1 Band. C. H. Mayer.
7/45 PB122787, Mi\$1.80, Ph\$1.80.
- R-2594 Development of Broad Band Com-
U munication Antennas RSD-X10
8/45 and RSD-10. W. E. Withrow.
PB28731, Mi\$1.00, Ph\$2.00.
- R-2595 A Jamming Transmitter of MAS
U Type for Range 60 to 100 Mc.
8/45 O. N. Wright.
PB109313, Mi\$2.00, Ph\$3.75.
- P-2596 The Adsorption of Aromatic
U Hydrocarbons from Hydrocarbon
7/45 Solutions.
P. N. Craig, D. C. Smith.
PB109312, Mi\$2.25, Ph\$5.00.
- P-2597 Chamber Tests of Human Sub-
U jects. VIII., Evaluation of Worn
9/45 CC-2 Impregnated Clothing.
W. H. Taylor, H. W. Carhart,
J. H. Heinen.
- S-2598 The Hot-Wire Sound Generator.
U M. F. M. Osborne, F. H. Holand.
8/45 PB107867, Mi\$2.25, Ph\$5.00.
- S-2599 Experiments with an Electrically
U Heated Wire in a Liquid.
8/45 M. F. M. Osborne.
PB107868, Mi\$2.00, Ph\$3.75.
- M-2600 Causes for Porosity and Leakage
U in Non-Ferrous Castings: The
8/45 Effects of Phosphorous in Navy
Gun Metal. R. A. Colton.
PB109277, Mi\$2.25, Ph\$5.00.
- R-2601 Airborne Radio - Resonant Re-
U sponse Characteristics of Models
8/45 AN/ARR-15 (XN-1) and (XN-2)
Radio Receivers. D. R. Schwarz,
M. Shatavsky, R. C. Miedke.
PB122788, Mi\$3.30, Ph\$7.80.
- P-2602 Chamber Tests with Human Sub-
U jects. XI., Evaluation of Modi-
8/45 fied Aqueous CC-3 Impregnation
Systems. W. H. Taylor,
H. W. Carhart, J. H. Heinen.
- P-2603 Chamber Tests with Human Sub-
U jects. XII., Suit and Man "Breaks"
8/45 with CC-2 Impregnated Clothing
W. H. Taylor, H. W. Carhart,
J. H. Heinen.
- P-2604 Chamber Tests with Human Sub-
U jects. XIII., Special Tests of CC-2
8/45 and Carbon Protective Clothing.
W. H. Taylor, H. W. Carhart,
J. H. Heinen.
- R-2605 Airborne Radio - Results of
U Tests of an AN/ARC-1 Modified
8/45 Equipment. D. L. Eye,
R. O. Parker.
PB28730, Mi\$1.00, Ph\$3.00.
- R-2606 Cancelled.
- O-2607 Cancelled.
- R-2608 Airborne Radio - Results of Tests
U of AN/ARC-5 VHF Transmitting
8/45 and Receiving Radio Equipment.
H. C. Petrowitz, D. R. Schwarz,
R. C. Miedke.
PB28726, Mi\$1.00, Ph\$4.00.
- R-2609 Interim Report on Type Tests of
U AN/ASG-10. I. W. Fuller,
8/45 M. L. Burnett.
PB122789, Mi\$2.40, Ph\$3.30.
- R-2610 Theory of Linear Servo
U Mechanisms. R. Latter.
8/45 PB23123, Mi\$1.50, Ph\$7.00.
- P-2611 An Examination of Toxic Agents
U for Fungicidal Coating Materials.
8/45 II. W. M. Whaley, W. L. Clark,
J. M. Leonard.
PB109278, Mi\$2.25, Ph\$5.00.
- R-2612 NRL Radio Countermeasures
U Problems. L. W. Boothby.
8/45
- R-2614 A Variable Frequency Pulsed
U Transmitter for Antenna Calibra-
8/45 tion. T. E. Hanley.
PB122790, Mi\$2.40, Ph\$3.30.
- O-2615 Cancelled (Incorporated in
Report O-2982).
- R-2616 Development of Remote Control
U for the JB-2 Flying Bomb.
10/45 M. W. Rosen, M. L. Kuder,
E. N. Pettitt.
PB122791, Mi\$4.80, Ph\$13.80.
- P-2617 Apparatus for Determining the
U Long Time Voltage Endurance
8/45 of Dielectrics. M. A. Elliott.
PB123372, Mi\$2.40, Ph\$3.30.
- R-2618 Antenna Pattern Measurements,
U on USS TETON (AGC-14).
8/45 M. Katzin.
PB28715, Mi\$2.00, Ph\$5.00.
- M-2619 Factors for the Calculation of
U Hardenability. S. Siegel,
9/45 J. G. Brooks.
PB109279, Mi\$4.25, Ph\$12.50.
- R-2620 Tests of Model REN Portable
U Sono-Radio Buoy Receiver.
8/45 R. Badessa.
PB28714, Mi\$1.00, Ph\$1.00.
- R-2621 Test of the Mark 2 Blinker Re-
U ceiver Model RDL-1, Serial X-1.
8/45 J. J. Pakan.
PB28713, Mi\$1.00, Ph\$2.00.
- P-2622 A Study of Sealing Compounds for
U Integral Fuel Tanks. A. T. Di Masi.
9/45 PB123370, Mi\$3.00, Ph\$6.30.
- R-2623 Proposed New Type of Ranging
U and Homing System.
8/45 R. C. Miedke.
- V-2624 Experimental Check on Calcula-
U tion of Displacement Caused by
8/45 Mechanical Shock. W. J. Mueller.
PB122768, Mi\$2.40, Ph\$3.30.
- P-2625 The Effect of Organic Sulphur Com-
U pounds Upon the Induction Period
11/45 of Aviation Gasoline.
A. K. Roebuck, W. D. Dunn.
PB109225, Mi\$1.75, Ph\$2.50.
- P-2626 Examination of Toxic Agents for
U Fungicidal Coating Materials. III.
8/45 W. M. Whaley, W. L. Clark,
J. M. Leonard.
PB109278, Mi\$2.25, Ph\$5.00.
- H-2627 Threshold and Signaling Ranges
U of Point Sources of Light in Fields
10/45 of Brightness from Dark to
Daylight. H. A. Knoll,
D. B. Beard, R. Tousey,
E. O. Hulburt.
PB116433, Mi\$2.25, Ph\$4.00.

Numerical Index

P-2628 - V-2666

- P-2628 An Examination of Toxic Agents for Fungicidal Coating Materials. U 8/45 IV. W. M. Whaley, W. L. Clark, W. E. Weaver, J. M. Leonard. PB107863, Mi\$2.50, Ph\$5.25.
- P-2629 A Ventilation Indicator for Submarine Storage Batteries. U 10/45 T. L. Hankins, G. W. Work, M. H. Boyer, F. S. Thomas. PB109498, Mi\$2.25, Ph\$5.00.
- P-2630 Possible Use of Relatively Thick Glass Mat Separators in Aircraft Storage Batteries. U 10/45 M. H. Boyer, R. A. Friend. PB123376, Mi\$3.30, Ph\$7.80.
- S-2631 Sector-Scan Indicator QXA. U 8/45 H. L. Saxton.
- R-2632 Test of AN/ARR-16B, Serial 0009 Radio Sono-Buoy Receiver. U 10/45 J. R. Williams.
- P-2633 A Study of Odorants for Use in Fire Extinguishers of Carbon Dioxide and Methyl Bromide Types. W. A. Landmann. PB123378, Mi\$2.70, Ph\$4.80.
- M-2634 Iron-Manganese-Nickel Alloys for Forgings. W. J. Haswell, S. L. Toleman, F. L. Riddell. PB32544, Mi\$1.00, Ph\$2.00.
- R-2635 Interim Report on Type Approval Tests for TN-103/APX "Black Maria" Transponder for IFF Mk 3. D. P. Heritage. PB122769, Mi\$2.40, Ph\$3.30.
- P-2636 Study of Methods of Removing Stibine from Submarine Storage Battery Ventilation Gas. U 9/45 G. W. Work, F. S. Thomas. PB109484, Mi\$1.75, Ph\$2.50.
- M-2637 Studies of the Causes and Methods of Preventing Bore Cracks in Cast Steel Fittings and Valve Bodies. H. F. Bishop, W. H. Johnson. PB109536, Mi\$2.50, Ph\$6.25.
- R-2638 A Method for Calculating Electric Field Strength in the Interference Region. H. E. Newell, Jr. PB22674, Mi\$1.00, Ph\$6.00.
- R-2639 Test of Four Model AN/CRT-4 Directional Radio Sono Buoys. U 10/45 J. M. Miles. PB122770, Mi\$2.40, Ph\$3.30.
- R-2640 Effect of Temperature on the Resonant Frequency of Modified Model 1541 (TFX-10GA) Cavities. H. L. Wuerffel, L. Schlesinger. PB28712, Mi\$1.00, Ph\$1.00.
- M-2641 Calculation of Tensile Strength and Yield Point of Normalized and Annealed Steels from the Chemical Composition. U 9/45 P. D. Gossuch, D. L. Newhouse. PB109456, Mi\$3.75, Ph\$11.25.
- P-2642 Development of Smoke Penetration Meters. H. W. Knudson, L. White. U 9/45 PB119781, Mi\$4.50, Ph\$12.30.
- R-2643 TEA System Test. U 8/45 J. J. Godbey, N. R. Best. PB123379, Mi\$3.60, Ph\$9.30.
- R-2644 Auxiliary Indicator for Fire Control Radar Scope Photography. U 9/45 J. H. Greig, E. J. Louma.
- O-2645 Shock and Vibration Instrumentation and Measurements. II. U 9/45 I. Vigness, E. W. Kammer, S. G. Holt. PB23133, Mi\$1.50, Ph\$8.00.
- M-2646 Causes for Porosity and Leakage in Non-Ferrous Castings: The Identification of Defects in Gun Metal by Means of Radiography - a Partial Report. W. H. Baer. U 9/45 PB109547, Mi\$2.50, Ph\$6.25.
- R-2647 The Blanket System of Anti-Direction Finder Communication - A Theoretical Investigation of Its Security Aspects. U 11/45 J. R. Snow, M. G. Cheney.
- R-2648 Requirements of Direction Finders Indicator and Determination of Correct Scanning Rates for DF Collector Systems in the VHF, UHF, and SHF Bands. U 4/46 J. R. Gruber, E. H. Flath. PB122771, Mi\$3.60, Ph\$9.30.
- R-2649 Engineering Test on Model AN/ARR-15 (XN-1) Serial 4 MHF Communications Receiver. U 9/45 D. R. Schwarz, R. C. Miedke. PB122772, Mi\$3.00, Ph\$6.30.
- O-2650 Partial Report on Gas Pulsator. U 9/45 L. F. Campbell, T. O. Meyer. PB122773, Mi\$3.90, Ph\$10.80.
- R-2651 Location of Mortars by Shipborne Fire Control Radar Equipment. U 9/45 H. L. Gerwin.
- R-2652 Mortar Location by Marine Corps Radar. U 11/45 R. R. Crane.
- P-2653 Volatile Compounds as Fungicides for Electronic Equipment. U 11/45 I. W. M. Whaley, W. L. Clark, W. E. Weaver, K. L. Englund, J. M. Leonard. PB109308, Mi\$2.00, Ph\$3.75.
- P-2654 The Determination of Small Amounts of Metal in Oils and Fuels by X-Ray Absorption, I, The Determination of Lead. U 10/45 M. V. Sullivan. PB107864, Mi\$2.25, Ph\$5.00.
- P-2655 Evaluation of Carbon-Rayon Protective Fabrics. U 12/45 H. R. Billica, G. M. Gantz, J. H. Heinen.
- P-2656 Comparison of the Corrosion Resistance of Aluminum Alloy Assemblies Anodized in Sulfuric and in Chromic Acid. U 10/45 R. L. Burwell, Jr., W. C. Sierichs, W. E. McConaughy. PB109463, Mi\$1.75, Ph\$2.50.
- R-2657 Automatic Radar Equipment Mk 12 Mod. 2, Gun Director Mk 37, Computer Mk 1 System Operation with and without Manually Controlled Computer Equalizer. U 10/45 C. F. White. PB122774, Mi\$3.30, Ph\$7.80.
- M-2658 Application of Fluid Flow Principles to Gating Copper-Base Castings. J. T. Robertson, R. G. Hardy. U 10/45 PB109503, Mi\$2.25, Ph\$5.00.
- R-2659 Cancelled (Issued as R-2898).
- R-2660 Modifications of R/SK and R/SC Antennas. K. S. Kelleher. U 9/45 PB28711, Mi\$2.00, Ph\$5.00.
- H-2661 Portable High Voltage Generator for Cathode Ray Devices. U 11/45 E. der Mateosian. PB109504, Mi\$2.00, Ph\$3.75.
- P-2662 The Development of Colored Oil Smokes for Signalling and Camouflaging Purposes. U 10/45 F. E. Brinnick.
- P-2663 Thermal Insulation and Corrosion Protection of Rangefinders. U 10/45 J. S. Strong, I. J. Eggert, H. W. Stewart. PB109502, Mi\$2.25, Ph\$4.00.
- R-2664 Receiver and Transmitter (RCM) Interference Tests. P. A. Guarino, R. B. Owens, R. E. Davis. U 10/45 PB122775, Mi\$3.00, Ph\$6.30.
- P-2665 Oxygen Source Materials, XVIII, Experiment Control of Carbon Dioxide and Oxygen Concentration Aboard the USS SAILFISH. U 10/45 J. C. White, J. K. Musick, M. H. Boyer, R. S. Hartman, W. H. Schechter, R. R. Miller. PB109684, Mi\$5.50, Ph\$3.00.
- V-2666 Effect of Modifications on the Performance Characteristics of the Light Weight, High Impact Shock Machine. S. E. Young. U 10/45 PB123388, Mi\$3.90, Ph\$10.80.

- R-2667 Test of Model CXHY (RDZ) Radio Receiving Equipment. J. W. Klotz. U
10/45 PB122776, Mi\$4.80, Ph\$13.80.
- R-2668 Simplified Analysis of R-C and U R-L Networks. C. F. White. U
10/45 PB105426, Mi\$2.25, Ph\$5.40.
- E-2669 The Effect of Load on Voltage and Series Compensating Capacitance for Airborne AC Generators. U
10/45 D. S. Toffolo, E. A. White. PB28839, Mi\$1.00, Ph\$3.00.
- H-2670 The CXR-2 and CXR-3 Nancy Infra-Red Receivers. U
10/45 H. A. Blodgett, J. R. Pruett, R. Tousey, I. C. Young.
- P-2671 A Study of Performance of Various Metals as Igniter Contact Rings on Five Inch SSR Rocket Motor. U
10/45 W. C. Sierichs, T. P. May. PB109889, Mi\$2.00, Ph\$3.75.
- R-2672 Reduction of Instrumental Error in Model DAB Direction Finding Equipment. A. G. Loveberg, Jr. U
11/45 PB123380, Mi\$3.60, Ph\$9.30.
- R-2673 AN L-Band Repeater for Use with the Radar Mk 4. U
11/45 W. R. Faust. PB122777, Mi\$2.40, Ph\$3.30.
- P-2674 Preparation of Protective Clothing by Impregnation of Cloth in Piece Goods. H. W. Fox, G. M. Gantz. U
11/45
- P-2675 The Investigation of the Suitability of the Open-Cell Type of Battery Ventilation for Use Aboard Submarines. J. J. Lander. U
8/45 PB123384, Mi\$4.80, Ph\$13.80.
- P-2676 Investigation of the Conducting Properties of Films Pigmented with Copper. I. R. Benemelis, B. Sidlow, J. E. Huskey, A. L. Alexander. U
11/45 PB23127, Mi\$.50, Ph\$2.00.
- P-2677 The Preparation of S-330. U
10/45 A. J. Stokes, W. H. Carhart, P. C. Teague.
- R-2678 Electrical Tests of Model X-OBS Cathode Ray Oscilloscope. U
11/45 R. G. Hennessy. PB28572, Mi\$1.00, Ph\$1.00.
- P-2679 The Full Scale Tests of the Sub-surface Injection Method of Tank Fire Extinguishment. R. L. Tuve. U
11/45
- H-2680 Optics of Searchlight Illumination. U
11/45 E. O. Hulburt. PB10270, Mi\$.50, Ph\$1.00.
- P-2681 Investigation of Silicone Polymer Fluids. VI., Performance Characteristics in a Unilaterally Loaded Journal Bearing. J. E. Brophy, R. O. Miltz, W. A. Zisman. U
11/45
- P-2682 Second Wearing Trial of Protective Clothing at Camp Lejeune. U
11/45 N. C. H. R. Billica, M. J. Curry, G. M. Gantz, J. C. Conner, N. C. Clausen, J. H. Heinen.
- P-2683 Summary Report on Dyestuffs for Simultaneous Dyeing and Impregnating of Protective Clothing. H. R. Billica, G. M. Gantz. U
11/45
- O-2684 Acceleration and Displacements During Drop Tests of Radio-Like Gear. P. T. Egbert, Jr., S. G. Holt. U
11/45 PB122778, Mi\$3.30, Ph\$7.80.
- R-2685 Development of Model CXB Boat Type Sono Radio Buoy. U
11/45 F. J. Hollweck. PB122781, Mi\$3.30, Ph\$7.80.
- R-2686 Reduction of Interference from the AN/APS-2F (ASG) Radar Equipment (with special reference to the SCR-269F Automatic Direction Finder). U
12/45 R. A. Pinkham, W. S. Kleinbach. PB27048, Mi\$1.00, Ph\$2.00.
- O-2687 Static and Ballistic Bend Tests on an Experimental 2.5" Armor Plate. A. E. Ruark, H. L. Smith, P. E. Shearin, R. M. Trimble, H. N. Michie. U
5/46
- P-2688 Chamber Tests with Human Subjects, XVII, Supplementary Tests of CC-2 Protective Clothing. U
11/45 W. H. Taylor, H. W. Carhart, J. H. Heinen.
- R-2689 Direction Finder Requirements for Submarines with Special Reference to the Use of the SV Radar Reflector. U
4/46 J. O. Spriggs, H. D. Arnett. PB122783, Mi\$3.30, Ph\$7.80.
- P-2690 A Study of Areskene as the Emulsifying Agent in Aqueous Process Impregnation of Clothing. H. V. Jensen, G. M. Gantz. U
1/46
- P-2691 Cellulose Caprate Cement. U
12/45 H. A. Tanner, A. Rogovin, L. Lockhart. PB109475, Mi\$2.00, Ph\$3.75.
- R-2692 Balanced Input Sensitivity Measurements Using Unbalanced Signal Generators. S. F. George. U
12/45 PB16887, Mi\$.50, Ph\$1.00.
- R-2693 Tests of Isolantite Adjustable Sleeve Antenna. K. W. Bewig. U
11/45 PB27049, Mi\$1.00, Ph\$1.00.
- R-2694 Type Test of AN/ASC-10 Toss Bombing Device, Final Report. U
11/45 I. W. Fuller, M. L. Burnett. PB122782, Mi\$2.40, Ph\$3.30.
- P-2695 A Summary of Wearing Trials of Permeable Protective Clothing. U
11/45
- P-2696 Measurement of Desorption of H-Vapor from Contaminated Carbon Cloth Using Radioactive H. U
12/45 K. G. Williams, H. R. Billica.
- P-2697 Investigation of Containers for the Shipment and Storage of RH-195. J. E. Johnson. U
11/45 PB120752, Mi\$2.70, Ph\$4.80.
- M-2698 A Study of Methods for Testing Gelatinized Corn Flour Mold and Core Binders. U
12/45 R. E. Morey, A. Weissler. PB109310, Mi\$2.00, Ph\$3.75.
- R-2699 Test of Model C-27/UPN Low Frequency Converter for Loran. U
11/45 J. W. Brogden.
- O-2700 Cancelled.
- P-2701 Chamber Tests with Human Subjects, XIV, Tests of New Carbon Clothing. W. H. Taylor, H. W. Carhart, J. H. Heinen. U
12/45
- P-2702 Chamber Tests with Human Subjects, XV, Tests of Worn Carbon Clothing. H. W. Carhart, W. H. Taylor, J. H. Heinen. U
1/46
- P-2703 Cancelled.
- P-2704 Production of Metallic Lithium and Lithium Salts - A Survey. U
11/45 C. R. Witschonke.
- R-2705 Acceptability Tests of the Breico Production Model CAQZ-X49771 Radio Call Selector and Comparison with W. E. Type 105A Selector. H. V. Jensen. U
12/45 PB109309, Mi\$1.75, Ph\$2.50.
- M-2706 Magnesium Skim Gate Material for Bronze. E. T. Myskowski, H. F. Taylor. U
11/45 PB109474, Mi\$1.75, Ph\$2.50.
- R-2707 Sensitivity and Accuracy Comparison of DAU vs DAJ Goniometer for DAJ-a Installations. U
1/46 S. F. George, E. H. Flath. PB123341, Mi\$3.00, Ph\$6.30.
- O-2708 Electric Control for the Limiting of Maximum Torque, Specific Application to Rolling-In of Small Condenser Tubes. J. E. Dinger, J. O. Grantham. U
12/45 PB123324, Mi\$2.40, Ph\$3.30.
- R-2709 Attenuation of Brass Waveguide having "Mill Finish" and Bright Finish". E. F. McClain. U
12/45

Numerical Index

R-2710 - M-2752

- R-2710 Results of Acceptance Tests of Model AN/ART-13A Radio Transmitting Set. V. O. Smallwood, H. Petrowitz, R. C. Miedke. PB123342, Mi\$3.60, Ph\$9.30.
- P-2711 A Brief Survey of Various Sea Water Cells. T. P. Dirkse. 11/45 PB120761, Mi\$2.40, Ph\$3.30.
- R-2712 Cancelled.
- R-2713 Modification of Intermediate-Frequency Amplifier Design in Receiver Unit of Radar Transponder Beacon Model AN/CPN-6 to Minimize Unintended Interrogations Caused by "Echo Stretching". D. O. Collup, L. E. Clements, J. K. Steckel. PB123367, Mi\$2.40, Ph\$3.30.
- R-2714 Analysis of Radar Model SP Receiver and Indicator Equipment. 1/46 J. Peake, H. H. Judson. PB123366, Mi\$2.70, Ph\$4.80.
- R-2715 Development of Electronic Receiving Switches for the 225 to 390 Mc Frequency Range. M. Heusinkveld. PB123365, Mi\$2.70, Ph\$4.80.
- R-2716 Development of Components for X_b Frequency Band. A. H. Ryan. 1/46 PB123351, Mi\$3.30, Ph\$7.80.
- R-2717 Airborne Radio-Results of Engineering Performance Tests on Range Receive Model BC-1206 Final Report. H. Petrowitz, R. C. Miedke. PB25499, Mi\$1.00, Ph\$3.00.
- R-2718 Cancelled.
- P-2719 Chemical Warfare Defense Reports; 1942-45, with Comments on Future Problems. W. C. Lanning.
- P-2720 Cancelled.
- R-2721 Comparison of Hydrogen Thyatron Modulator with Hard Tube Modulator in the Mk 20 Radar. 12/45 P. F. Ordung. PB16886, Mi\$.50, Ph\$1.00.
- H-2722 A Procedure for Investigating Infra-Red Receiver Performance with Application to the CF-2 and CF-3 Receivers. R. Tousey. PB123350, Mi\$2.40, Ph\$3.30.
- R-2723 Superseded by R-3246.
- R-2724 Performance Study of an Experimental Iron Core Loop. E. 1/46 Ackerlind, J. B. Reynolds, Jr.
- R-2725 Cancelled.
- M-2726 Investment Precision Casting. U D. A. Potter. 12/45 PB123387, Mi\$3.30, Ph\$7.80.
- R-2727 Electronic Transmitting Switches for the 225 to 390 Mc Frequency Range. M. Heusinkveld. 2/46 PB109496, Mi\$1.75, Ph\$2.50.
- P-2728 Cancelled.
- P-2729 Chamber Tests with Human Subjects, XIX, Studies of Clothing Design. G. M. Gantz, W. H. Taylor, H. W. Carhart, J. H. Heinen. 12/45
- O-2730 Partial Report on Gas Pulsator. L. F. Campbell, T. O. Myer. 1/46 PB123349, Mi\$3.00, Ph\$6.30.
- H-2731 German Interference Filters. U J. A. Sanderson, R. L. Ueberall. 1/46 PB99851, Mi\$2.00, Ph\$3.75.
- R-2732 Test of High Voltage Cable Connectors for RG-17-U, -18, U, -19/U and -20/U, Cables. H. D. Roess. 1/46 PB123348, Mi\$2.70, Ph\$4.80.
- R-2733 Circularly Polarized Antenna for 350 to 1000 Mc Frequency Range. M. Heusinkveld. 3/46 PB120716, Mi\$2.70, Ph\$4.80.
- P-2734 Chamber Tests with Human Subjects, XVIII, Tests with HN Vapors. J. H. Heinen, W. H. Taylor, B. N. Stolp, J. C. Conner, N. M. Clausen. 1/46
- B-2735 Cancelled.
- E-2736 Investigation of Aircraft Electrical System Using General Electric 2CM73B7 and Eclipse NEA-7 (1406-1-A) Generators in Parallel and Controlled by Eclipse 1042-9-A Voltage Regulators. W. Roberts, A. T. McClinton. PB28636, Mi\$1.00, Ph\$1.00.
- E-2737 Investigation of Methods for Improving the Temperature Compensation of Eclipse Type 1001 and 1317 A.C. Carbon Pile Voltage Regulators. J. P. Berner, A. T. McClinton. 1/46 PB123347, Mi\$1.80, Ph\$1.80.
- R-2738 Directive Antenna System in the 6 to 15 Mc Band for Essex Class Aircraft Carriers. 7/46 L. G. Robbins, O. Norgorden.
- R-2739 Tests of the Wide Band I-F Amplifier Type D-153034 Relative to Its Use in the Radar Equipment Mk 34 Mod. 2. 1/46 A. B. Moulton. PB120717, Mi\$2.40, Ph\$3.30.
- R-2740 Final Report on the Type Approval Tests for TN-103/APX "Black Maria" Transponder (for IFF Mk 3). D. P. Heritage. 1/46 PB120718, Mi\$2.70, Ph\$4.80.
- P-2741 Synthetic Low Temperature Greases from Aliphatic Diesters. U G. M. Hain, D. T. Jones, 2/46 R. L. Merker, W. A. Zisman. PB105915, Mi\$2.25, Ph\$5.00.
- R-2742 Test of RCA UHF Direction Finder Developed Under NDRC Contract OEMsr-1009. K. O. Hornberg, W. P. Newman. 2/46
- R-2743 Electrical Characteristics of Audio Oscillator in the Model RDJ-1 Pulse Analyser. U R. G. Hennessy. 1/46 PB22578, Mi\$.50, Ph\$1.00.
- P-2744 Anti-Fouling Paint Studies, II, An Investigation of the Inherent Errors in Leaching Rate Measurements. J. B. Ballentine, W. H. Stewart, M. O. Yeiter, A. L. Alexander. 1/46 PB109506, Mi\$2.50, Ph\$6.25.
- M-2745 Internal and External Hot Tears: U Their Dissimilarity as to Appearance, Origin, and Means of Elimination. H. F. Bishop. 1/46 PB109497, Mi\$2.00, Ph\$3.75.
- P-2746 The Absorption Spectra of Silicone Fluids. U D. C. Smith, 1/46 J. M. French, J. J. O'Neill. PB116632, Mi\$3.00, Ph\$7.75.
- R-2747 The Application of MTI to Fire Control Radar. U J. J. Myers. 4/46
- R-2748 Evaluation of Model FSB Frequency Shift Keyer for Naval Use. A. L. Goepfinger, M. Burmeister. 1/46 PB123346, Mi\$3.30, Ph\$7.80.
- R-2749 Resolution of Panoramic Receivers. U W. R. Faust. 1/46 PB20183, Mi\$.50, Ph\$1.00.
- H-2750 The Comparison of a Geiger Counter with an Ionization Chamber. C. O. Muehlhauser. 2/46 PB109439, Mi\$2.00, Ph\$2.75.
- B-2751 Acceptance Test of the Draft Gage System, submitted by Bendix Aviation Corp. W. E. Chadwick. 2/46 PB123345, Mi\$2.70, Ph\$4.80.
- M-2752 A Review and Summary of Weldability Testing of Low Alloy High Tensile Steels. U G. G. Luther, C. E. Hartbower. 3/46 PB110812, Mi\$3.50, Ph\$10.00.

- M-2753 The Use of Gas Producing
U Materials for Obtaining
2/46 Artificial Pressures in Blind
Risers of Bronze Castings.
R. L. Fox.
PB109480, Mi\$2.25, Ph\$5.00.
- R-2754 Model DBD Medium Frequency
U Direction Finder Equipment
4/46 for Small Craft.
A. G. Thompson.
PB120719, Mi\$2.70, Ph\$4.80.
- H-2755 Tests of Dupont Aluminum Paint
U P-100P8497 in the Fire Room
2/46 of the USS EUGENE A. GREENE
(DD-711). J. A. Sanderson.
PB109490, Mi\$1.25, Ph\$1.25.
- R-2756 Integrating Accelerometers
U Used on the German V-2
2/46 (A-4) Missile. T. M. Moore.
PB17568, Mi\$1.50, Ph\$1.00.
- M-2757 A Study of the Causes and
U Methods of Preventing Veins and
2/46 Penetration in Sand Cast Metals.
J. R. Kattus, R. E. Morey.
PB109489, Mi\$2.25, Ph\$4.00.
- H-2758 Geiger Counter Technique for
U High Counting Rates. C. O.
2/46 Meuhlhouse, H. Friedman.
PB109488, Mi\$2.00, Ph\$3.75.
- R-2759 Proposed Very Long Radar with
U Height Finding. A. A. Varela.
2/46 PB120720, Mi\$2.40, Ph\$3.30.
- P-2760 Chamber Tests with Human Sub-
U jects, XX, Hypersensitivity to H
5/46 as Demonstrated by Patch Tests
Before and After Chamber Ex-
posure to H Vapor. J. H. Henlen,
H. W. Carhart, W. H. Taylor,
B. N. Stolp, J. S. Conner, Jr.,
N. M. Clausen.
- O-2761 Characteristics of Short Radius
U Tube Bends. II, Theoretical.
2/46 P. S. Symonds, T. E. Pardue.
PB113631, Mi\$3.75, Ph\$10.25.
- R-2762 Dual Display Dual Panoramic
U Adaptor - Model CXJO.
2/46 R. Polkinghorn.
PB123344, Mi\$3.00, Ph\$6.30.
- P-2763 Ship Bottom Paint Systems. I.,
U The Role of Fatty Acids and
2/46 Soaps in the Adhesions of Under-
water Primer. F. Arndt, S. B.
Creclium, J. E. Huskey.
PB109487, Mi\$2.50, Ph\$6.25.
- H-2764 A Survey of Thermal Radiation
U from Surface Vessels. I.,
5/46 (Dec. 1945 to Mar. 1946).
H. L. Clark.
- R-2765 Analysis of Model UM Switching
U Equipment. J. W. Brogden.
2/46 PB123343, Mi\$1.80, Ph\$1.80.
- R-2766 AEW Interference Report:
U Airborne Problem.
4/46
- R-2767 AEW Interference Report B:
U Shipboard Problem.
3/46
- R-2768 Cancelled.
- R-2769 Antenna Network Correctives for
U VHF IFF Interferences.
4/46 A. Brodzinsky, R. S. Timm.
- R-2770 Practical Design of Transmission-
U Line Networks for Broadband
9/46 Filter Applications.
PB85936, Mi\$4.50, Ph\$15.00.
- E-2771 Cancelled.
- R-2772 The Universal Electronic Target
U Designation System.
2/47 P. C. Sherertz.
- P-2773 Cancelled.
- H-2774 The Elac Lead Sulphide Photocell.
U C. L. Oxley.
7/46 PB109495, Mi\$2.25, Ph\$4.00.
- R-2775 Development of Types and
U Arrangements of Collinear
3/46 Antennas with Low Inter-coupling.
M. Heusinkveld, H. F. Carlson.
- R-2776 Submarine Intercept Antenna for
U Frequency Range 1000-3500 Mcs.
3/46 K. S. Kelleher.
- P-2777 Study of Fuels in the Aeroresonator
U Motor. (Period 7-1-45 to 2-1-46).
3/46 D. S. Burgess, S. H. Smith,
T. K. Rice, K. J. Hayes,
C. G. Lindquist.
PB109494, Mi\$2.50, Ph\$6.25.
- R-2778 Modification of Kohler Emergency
U Generator for Operation on 60
3/46 Cycle Current. R. R. Zirm.
PB120760, Mi\$1.80, Ph\$1.80.
- R-2779 The Conditions for Certainty of
U Interception of an Intermittent
7/46 Signal by a Rotating Directional
Antenna. H. D. Arnett.
- B-2780 Tests for Information on Wind
U Systems: Proposed Types B1
6/46 and B2, submitted by Bendix
Aviation Corp. R. Gareau.
PB123340, Mi\$4.50, Ph\$12.30.
- R-2781 Considerations in the Design of
U 2 Mc Loran Transmitters
3/46 Intended to Reduce Side-Bands
and Permit Cycle-Matching
Operation. M. V. Hoover.
- R-2782 Cancelled.
- R-2783 Over Voltage Output for Com-
U munication Equipment.
4/46 R. R. Zirm, J. M. Miles.
PB109493, Mi\$2.00, Ph\$2.75.
- P-2784 Cancelled.
- P-2785 The Synthesis of Branched Chain
U Fatty Acids and Their Metallic
1/46 Salts. L. W. Beck, F. S.
Cluthe, J. K. Wolfe.
PB105686, Mi\$2.00, Ph\$2.75.
- E-2786 Investigation Leading to the
U Determination of Satisfactory
3/46 Voltage Regulator and Generator
Combinations. R. L. Mills,
A. T. McClinton.
PB109491, Mi\$2.00, Ph\$2.75.
- P-2787 The Preparation of Metallic
U Arylsteates. L. W. Beck,
1/46 F. S. Cluthe, J. K. Wolfe.
PB105918, Mi\$1.75, Ph\$2.50.
- M-2788 An Investigation of the
U Phenomenon of Cleavage Type
3/46 Fractures in Low Alloy
Structural Ship Steels.
H. J. Gershenow,
C. E. Hartbower.
PB109501, Mi\$1.75, Ph\$2.50.
- B-2789 Development of Shock Mounting
U for Fire Alarm Thermostats.
8/46 G. K. C. Hardesty, G. Pida,
D. T. Scuderi.
PB123365, Mi\$3.80, Ph\$9.30.
- R-2790 Partial Navigation Courses for
U a Guided Missile Attacking a
3/46 Constant Velocity Target.
H. Spitz.
PB119797, Mi\$3.00, Ph\$6.30.
- R-2791 A Lobing Mark 32 Array for
U Fire Control Radars Mark 28
4/46 Mod. 0 and Mod. 3.
L. R. Dobler, J. R. Shoemaker.
- E-2792 Determination of Safe Creepage
U Distances for Electrical Equip-
3/46 ment at High Altitudes.
N. M. Hintz, L. J. Money.
PB108500, Mi\$2.25, Ph\$5.00.
- R-2793 Radar Cross Section of Ship
U Targets, VIII.
3/46 W. J. Barr.
- B-2794 Investigation of Circuits and
U Characteristics of German
4/46 Automatic Telephone CEE 17642.
J. C. Council,
W. W. Rosenberry.
- B-2795 Tests of Information Telegraph
U Equipment, CEE 17641 Captured
4/46 German Equipment.
W. E. Chadwick.
PB120721, Mi\$3.00, Ph\$6.30.
- O-2796 Ductility and Fracture Resistance
U of Ship Plate. A. E. Ruark,
11/46 H. L. Smith, W. J. Ferguson,
G. A. Hornbeck, I. R. Kramer,
P. E. Shearin, R. M. Trimble,
H. N. Michie.
PB120753, Mi\$5.40, Ph\$15.30.

Numerical Index

R-2797 - O-2838

- R-2797 Relay Radar System. M. G.
U Pawley, T. B. Jackson.
4/46
- R-2798 Test of Model 82F-CWB Receiver.
U W. E. W. Howe.
4/46 PB123396, Mi\$2.70, Ph\$4.80.
- R-2799 Application of Doubler Mixer
U Technique to Electronic
4/46 Problems. H. O. Lorenzen.
PB109492, Mi\$1.50, Ph\$1.50.
- M-2800 German Permanent Mold Casting
U Machine. J. M. Ciborski.
n. d. PB109485, Mi\$2.00, Ph\$3.75.
- R-2801 Interim Report of Test of Model
U CXGJ-4 (DBT) Shipborne VHF
4/46 Direction Finder. R. L. Libby,
S. R. Thrift.
PB109483, Mi\$3.50, Ph\$10.00.
- P-2802 Silicone-Diester Mixtures and
U Greases Prepared from Them.
4/46 R. L. Merker.
PB109486, Mi\$1.75, Ph\$2.50.
- R-2803 Storage Deterioration of Model
U RCH Receiver. A. L. Hedrick.
4/46 PB109479, Mi\$1.75, Ph\$2.50.
- R-2804 Cancelled.
- R-2805 Airborne Radio - Results of
U Engineering Performance Tests
4/46 on Model AN/ARC-2 MHF Com-
munications Equipment, Final
Report. D. R. Schwarz, V. O.
Smallwood, N. L. Molloy,
R. C. Miedke.
PB120722, Mi\$3.60, Ph\$9.30.
- H-2806 The Sensitivity, Frequency
U Response and Noise of Photo-
4/46 thermal Detectors, CJU Serial
No. 6 and Serial No. 7.
H. S. Stewart, D. H. Gleason.
PB109460, Mi\$1.25, Ph\$1.25.
- E-2807 Radio Interference Studies of
U Aircraft Generators. E. S.
4/46 Van Valkenburg, E. A. White.
PB123368, Mi\$4.50, Ph\$12.30.
- M-2808 The Relation of Size of Chill to
U Bronze Castings.
4/46 W. J. Richmond.
PB109458, Mi\$2.00, Ph\$3.75.
- R-2809 Interim Report on Type Test of
U AN/APS-20A. C. B. Barnes,
4/46 I. W. Fuller.
- M-2810 Micro-Radiography Manual.
U E. I. Salkovitz.
4/46 PB109531, Mi\$2.00, Ph\$3.75.
- R-2811 Development of "R" Sweep for
U SC-1, 2, 3, and SK Radar Indica-
4/46 tors. E. E. Herman, R. E. Davis.
PB120766, Mi\$2.40, Ph\$3.30.
- H-2812 The Theory of the Behavior of
U Bolometers Cooled by Gaseous
4/46 Conduction. V. W. Myers,
W. D. Walker, H. S. Stewart.
PB122757, Mi\$3.60, Ph\$9.30.
- P-2813 Development and Design of a
U Laboratory Machine for the Con-
4/46 tinuous Production of Grease.
G. M. Hain, E. E. Stone.
PB122756, Mi\$1.80, Ph\$1.80.
- F-2814 Cancelled.
- O-2815 Final Report on Effects of Pro-
U jectile Shock on Aircraft Armor
4/46 Supports. E. W. Kammer.
PB109529, Mi\$1.75, Ph\$2.50.
- E-2816 Procedure for Conducting Contact
U Resistance (Millivolt Drop) Tests
4/46 on AN Connectors.
J. C. Staples, L. J. Money.
PB100530, Mi\$2.00, Ph\$3.75.
- P-2817 A Microworker for Lubricating
U Greases. G. M. Hain.
4/46 PB109461, Mi\$1.75, Ph\$2.50.
- V-2818 Effect of Mounting Condition on
U the Performance Characteristics
4/46 of the Light Weight High Impact
Shock Machine. J. P. Walsh,
S. E. Young.
- P-2820 The Synthesis of Aliphatic
U Thiols and Aliphatic Sulfonic
4/46 Acids. A. R. Gilbert, L. W.
Beck, J. K. Wolfe.
PB123397, Mi\$2.40, Ph\$3.30.
- M-2821 The Influence of Melting Practice,
U Design of Test Coupon and Mold-
4/46 ing Sand on the Mechanical Prop-
erties of Nonferrous Test Bars.
W. J. Richmond, R. L. Fox.
PB109533, Mi\$2.25, Ph\$5.00.
- P-2822 Development of Rubber Com-
U pounds Used in Shock Mounting.
4/46 F. Thurman, J. Rice,
P. C. Taylor.
PB109532, Mi\$1.75, Ph\$2.50.
- R-2823 The Mathematics of the Location
U of Mortar Sites by Radar.
4/46 J. E. Myers.
- P-2824 A Taxonomic Study of Fungi
U Associated with the Deterioration
4/46 of Military Equipment.
D. D. Ritchie.
PB109462, Mi\$2.00, Ph\$3.75.
- R-2825 Report on Test of Type CMX-
U 48545 Loudspeaker-Amplifier
4/46 Equipment, submitted by the
Magnovox Co. W. E. W. Howe.
PB120767, Mi\$2.70, Ph\$4.80.
- R-2826 A System for Obtaining Two Color
U Presentations on Cathode Ray
4/46 Tubes Having P-7 or P-14
Screens. P. C. Sberertz.
- R-2827 Modified M6807 Antenna for 2200-
U 3800 Mc Frequency Range. H. K.
4/46 Weidemann, M. Heusinkveld.
PB120723, Mi\$2.40, Ph\$3.30.
- R-2828 Errors Introduced by Arbitrary
U Lengths of Solid Dielectric Cables
4/46 in Slotted Line Impedance Meas-
urements. K. W. Bewig.
PB109468, Mi\$2.50, Ph\$3.30.
- R-2829 Test of Model CXKB-1 (FRG)
U Frequency Shift Receiver Con-
4/46 verter Equipment. C. E.
Young, B. I. Green.
PB109275, Mi\$2.25, Ph\$4.00.
- E-2830 Determination of Peak Operating
U Voltage for Low Tension Aircraft
4/46 Cable. A. A. Daush, W. A.
Ritchie.
PB109464, Mi\$1.75, Ph\$2.50.
- M-2831 Composite Armor Plate (1/2
U Inch Thick). S. Siegel,
4/46 L. M. Punskey.
PB109465, Mi\$1.75, Ph\$2.50.
- R-2832 A Carrier Controlled Approach
U System for Aircraft.
4/46 R. E. White, N. L. Davis.
- R-2833 Test of Model FRA Frequency
U Shift Receiver Converter Equip-
4/46 ment. C. R. Neth.
PB109466, Mi\$2.25, Ph\$5.00.
- R-2834 Causes for Frequency Instability
U in the Type 1605 Resonant Cav-
4/46 ities. H. L. Wuerffel,
L. Schlesinger.
PB120724, Mi\$2.40, Ph\$3.30.
- P-2835 Anti-Corrosive Coatings for
U Magnesium, I, Salt Spray
4/46 Resistance. R. Freriks,
F. Arndt, J. A. Suther.
- S-2836 Cancelled (Issued as S-2850,
Part I, and S-2932, Part II.)
- R-2837 Additional Report on Vibration
U Test of AN/ASG-10 Toss-
4/46 Bombing Device. I. W. Fuller,
M. L. Burnett.
PB120768, Mi\$1.80, Ph\$1.80.
- O-2838 Mechanical Shock Characteristics
U of High Impact Machines for
4/46 Electronic Devices, submitted
by Taft-Peirce Co. I. Vigness,
R. C. Nowak, E. W. Kammer.
PB108155, Mi\$2.50, Ph\$6.25.

R-2839 - R-2878

Naval Research Laboratory

- R-2839 The Effectiveness of AN/APQ-2
U "Rug" Jamming Transmitter
5/46 Using Modification Kit
MX527/APQ-2 Frequency
Modulation. K. M. Watson.
PB120725, Mi\$2.40, Ph\$3.30.
- R-2840 Test of Acceptability of Pre-
U Production Navy Model RXA
5/46 Antenna Multicoupler.
J. A. Kirk.
PB109467, Mi\$2.00, Ph\$3.75.
- R-2841 Radio Frequency Power Measure-
U ments by Use of a Remote Heat
7/46 Sensitive Device. G. P. Walker.
PB109476, Mi\$1.75, Ph\$2.50.
- R-2842 Investigation of Model RDZ
U Radio Receiver Crystal
5/46 Oscillator Circuits to Provide
Increased Oscillator Activity
to Maintain Frequency Correla-
tion with Type CR-7 Production
Crystals. J. W. Klotz.
PB120769, Mi\$1.80, Ph\$1.80.
- R-2843 Probability of Intercepting
U Radar Signals by Search
6/46 Receivers. J. M. Hollywood.
- R-2844 Redesign of AN/CRT-1B
U Expendable Radio Sono-Buoy.
5/46 F. J. Hollweck.
PB120771, Mi\$2.40, Ph\$3.30.
- M-2845 An Investigation of the Effect of
U Welding on Transition Temper-
5/46 atures of Navy High Tensile
Low Alloy Steels. R. E. Metius,
F. H. Laxar, C. E. Hartbower.
PB109477, Mi\$2.50, Ph\$6.25.
- P-2846 An Automatic Recording Spectro-
U photometer. T. Coor,
5/46 D. C. Smith.
PB109478, Mi\$2.25, Ph\$5.00.
- R-2847 Design Features of a Compact
U Spinning Loop Type Direction
4/46 Finder for the MF and HF
Ranges. (The Preliminary
DBH-DF), Final Report.
H. C. Stage.
PB46557, Mi\$1.00, Ph\$2.00.
- M-2848 Cancelled.
- P-2849 Three-Layer Reflection-Reducing
U Coatings for Optical Elements.
5/46 L. B. Lockhart.
PB120770, Mi\$2.70, Ph\$4.80.
- S-2850 Supersonic Measurement of Wall
U Thickness in Diesel Liners. I.
6/46 F. W. Struthers.
PB109288, Mi\$2.25, Ph\$4.00.
- O-2851 A Ballistic Pendulum Air Drag
U Measurement Technique.
10/46 G. R. Irwin, A. B. J. Clark,
F. Iskowitz.
PB120772, Mi\$3.60, Ph\$9.30.
- R-2853 Factors Affecting Choice of
U Operating Frequency for Distance
6/46 Measuring Equipment.
L. S. Schwartz.
PB109425, Mi\$2.25, Ph\$4.00.
- R-2854 Some Proposals for Improving
U Aircraft Radio Systems.
6/46 F. E. Boyd, K. L. Huntley,
P. D. Shupe.
PB120773, Mi\$2.40, Ph\$3.30.
- M-2855 The Development of Aluminum
U Alloys for Elevated Temperature
6/46 Applications. I. The Effects of
14 Elements on the Short-Time
Tensile and Other Properties of
43 Binary and 6 Polymery
Aluminum Alloys. J. B. Russell.
PB110813, Mi\$3.50, Ph\$10.00.
- E-2856 Study of the Electrical System in
U a Naval Aircraft TBM-1C.
6/46 G. J. Albert, G. F. Qunby.
- R-2857 An Interim Short Range Air Navi-
U gation System. R. A. Emmett,
6/46 Jr., R. L. Easton.
PB109343, Mi\$2.50, Ph\$5.25.
- H-2858 Measurement of Betatron Radia-
U tion with Geiger-Mueller Counters.
6/46 C. O. Meuhlhause, H. Friedman.
PB109342, Mi\$2.00, Ph\$2.75.
- O-2859 Partial Report on Gas Pulsator.
U III. T. O. Meyer,
10/46 F. K. Elder, Jr.
PB120774, Mi\$4.50, Ph\$12.30.
- M-2860 Proposals for Research on Gray
U Cast Iron. J. H. Schaum.
6/46 PB109341, Mi\$1.75, Ph\$2.50.
- P-2861 The Analysis of Natural and
U Synthetic Rubber by Infrared
8/46 Spectroscopy. H. L. Dinsmore,
D. C. Smith.
PB116704, Mi\$5.75, Ph\$17.75.
- R-2862 Test of Model TBP-1 Loran
U Transmitting Equipment.
6/46 E. R. Rosen.
PB120775, Mi\$4.50, Ph\$12.30.
- O-2863 Preliminary Report on Dynamic
U Penetration by Cones. A. J.
6/46 Hodges, G. R. Irwin,
J. R. Streeter.
PB47909, Mi\$2.00, Ph\$4.00.
- B-2864 Tests for Information on Flood
U Alarm (Switch) Device CEE No.
9/46 55033. R. Gareau.
- E-2865 The Determination of Thermal
U Characteristics of Standard Type
6/46 Naval Airborne Generators.
J. L. Kasten, E. A. White.
- R-2866 Airborne Television - Results of
U Test of High Sensitivity Conver-
6/46 sion Unit, PH-548/AXT-2A,
Serial #93, for Models ATJ or
ATK Television Equipment.
L. George, P. Bradeen.
- R-2867 Final Report on Type Test of TD-
U 4/APS-3 Target Discriminator.
6/45 I. W. Fuller, M. L. Burnett.
PB120776, Mi\$2.40, Ph\$1.30.
- M-2868 Summary Report on the Applica-
U tion of the Thermit Process to
6/46 Production of Carbon and Alloy
Steel Castings for Naval Service.
R. C. Wayne.
PB110809, Mi\$3.00, Ph\$8.75.
- R-2869 Investigation of RMA and NRL
U Transformer Test Chambers for
6/46 Proposed Specification JAN-T-27.
G. L. Anderson, H. S. Robertson.
PB109422, Mi\$2.25, Ph\$4.00.
- R-2870 The Radar Jamming Effectiveness
U of Various Types of Noise Signals.
6/45 K. M. Watson.
- R-2872 Submerged VLF Reception. A
U Study of Various Loop Coupling
12/46 Methods. S. V. Fraianni.
- R-2873 Preliminary Survey of Remote
U Control Wire Links for Model
7/46 DAJ-a Direction Finder Installa-
tions with Special Reference to
Distance up to 3000 Feet.
R. L. Haskins, S. F. George,
A. G. Loveberg.
- M-2874 An Investigation of the Proper-
U ties of Foundry Cores Made with
6/46 Two Types of Urea Formaldehyde
Binders. J. R. Kattus,
R. E. Morey.
PB109428, Mi\$2.00, Ph\$3.75.
- R-2875 Test of Model (RDH) Panoramic
U Search Equipment. R. W. Zeek.
6/46 PB120777, Mi\$3.30, Ph\$7.80.
- P-2876 The Navy Diaphragm Gas Mask
U Canister, Type B2.
5/46 H. F. Bogardus.
- P-2877 Chemical Studies on Fungicides,
U 1, Correlation of Structure with
7/46 Fungicidity. W. E. Weaver,
W. M. Whaley.
PB100904, Mi\$1.75, Ph\$2.50.
- R-2878 Performance Tests of Model TDY-
U 1 Radar Jamming Transmitter.
7/46 W. F. Main.
PB120726, Mi\$3.60, Ph\$9.30.

- R-2839 The Effectiveness of AN/APQ-2
U "Rug" Jamming Transmitter
5/46 Using Modification Kit
MX327/APQ-2 Frequency
Modulation. K. M. Watson.
PB120725, Mi\$2.40, Ph\$3.30.
- R-2840 Test of Acceptability of Pre-
U Production Navy Model RXA
5/46 Antenna Multicoupler.
J. A. Kirk.
PB109467, Mi\$2.00, Ph\$3.75.
- R-2841 Radio Frequency Power Measure-
U ments by Use of a Remote Heat
7/46 Sensitive Device. G. P. Walker.
PB109476, Mi\$1.75, Ph\$2.50.
- R-2842 Investigation of Model RDZ
U Radio Receiver Crystal
5/46 Oscillator Circuits to Provide
Increased Oscillator Activity
to Maintain Frequency Correla-
tion with Type CR-7 Production
Crystals. J. W. Klotz.
PB120769, Mi\$1.80, Ph\$1.80.
- R-2843 Probability of Intercepting
U Radar Signals by Search
6/46 Receivers. J. M. Hollywood.
- R-2844 Redesign of AN/CRT-1B
U Expendable Radio Sono-Buoy.
5/46 F. J. Hollweck.
PB120771, Mi\$2.40, Ph\$3.30.
- M-2845 An Investigation of the Effect of
U Welding on Transition Temper-
5/46 atures of Navy High Tensile
Low Alloy Steels. R. E. Mettus,
F. H. Laxar, C. E. Hartbower.
PB109477, Mi\$2.50, Ph\$6.25.
- P-2846 An Automatic Recording Spectro-
U photometer. T. Coor,
5/46 D. C. Smith.
PB109478, Mi\$2.25, Ph\$5.00.
- R-2847 Design Features of a Compact
U Spinning Loop Type Direction
4/46 Finder for the MF and HF
Ranges. (The Preliminary
DBH-DF), Final Report.
H. C. Stage.
PB46557, Mi\$1.00, Ph\$2.00.
- M-2848 Cancelled.
- P-2849 Three-Layer Reflection-Reducing
U Coatings for Optical Elements.
5/46 L. B. Lockhart.
PB120770, Mi\$2.70, Ph\$4.80.
- S-2850 Supersonic Measurement of Wall
U Thickness in Diesel Liners, I.
6/46 F. W. Struthers.
PB109288, Mi\$2.25, Ph\$4.00.
- O-2851 A Ballistic Pendulum Air Drag
U Measurement Technique.
10/46 G. R. Irwin, A. B. J. Clark,
F. Iskovitz.
PB120772, Mi\$3.60, Ph\$9.30.
- R-2853 Factors Affecting Choice of
U Operating Frequency for Distance
6/46 Measuring Equipment.
L. S. Schwartz.
PB109425, Mi\$2.25, Ph\$4.00.
- R-2854 Some Proposals for Improving
U Aircraft Radio Systems.
6/46 F. E. Boyd, K. L. Huntley,
P. D. Shupe.
PB120773, Mi\$2.40, Ph\$3.30.
- M-2855 The Development of Aluminum
U Alloys for Elevated Temperature
6/46 Applications. I, The Effects of
14 Elements on the Short-Time
Tensile and Other Properties of
43 Binary and 6 Polynary
Aluminum Alloys. J. B. Russell.
PB110813, Mi\$3.50, Ph\$10.00.
- E-2856 Study of the Electrical System in
U a Naval Aircraft TBM-1C.
6/46 G. J. Albert, G. F. Quinby.
- R-2857 An Interim Short Range Air Navi-
U gation System. R. A. Emmett,
6/46 Jr., R. L. Easton.
PB109343, Mi\$2.50, Ph\$5.25.
- H-2858 Measurement of Betatron Radia-
U tion with Geiger-Mueller Counters.
6/46 C. O. Meuhlhause, H. Friedman.
PB109342, Mi\$2.00, Ph\$2.75.
- O-2859 Partial Report on Gas Pulsator.
U III. T. O. Meyer,
10/46 F. K. Elder, Jr.
PB120774, Mi\$4.50, Ph\$12.30.
- M-2860 Proposals for Research on Gray
U Cast Iron. J. H. Schaum.
6/46 PB109341, Mi\$1.75, Ph\$2.50.
- P-2861 The Analysis of Natural and
U Synthetic Rubber by Infrared
8/46 Spectroscopy. H. L. Dinsmore,
D. C. Smith.
PB116704, Mi\$5.75, Ph\$17.75.
- R-2862 Test of Model TBP-1 Loran
U Transmitting Equipment.
6/46 E. R. Rosen.
PB120775, Mi\$4.50, Ph\$12.30.
- O-2863 Preliminary Report on Dynamic
U Penetration by Cones. A. J.
6/46 Hodges, G. R. Irwin,
J. R. Streeter.
PB47909, Mi\$2.00, Ph\$4.00.
- B-2864 Tests for Information on Flood
U Alarm (Switch) Device CEE No.
9/46 55033. R. Gareau.
- E-2865 The Determination of Thermal
U Characteristics of Standard Type
6/46 Naval Airborne Generators.
J. L. Kasten, E. A. White.
- R-2866 Airborne Television - Results of
U Test of High Sensitivity Conver-
6/46 sion Unit, PH-548/AXT-2A,
Serial #93, for Models ATJ or
ATK Television Equipment.
L. George, P. Bradeen.
- R-2867 Final Report on Type Test of TD-
U 4/APS-3 Target Discriminator.
6/45 I. W. Fuller, M. L. Burnett.
PB120776, Mi\$2.40, Ph\$3.30.
- M-2868 Summary Report on the Applica-
U tion of the Thermit Process to
6/46 Production of Carbon and Alloy
Steel Castings for Naval Service.
R. C. Wayne.
PB110809, Mi\$3.00, Ph\$8.75.
- R-2869 Investigation of RMA and NRL
U Transformer Test Chambers for
6/46 Proposed Specification JAN-T-27.
G. L. Anderson, H. S. Robertson.
PB109422, Mi\$2.25, Ph\$4.00.
- R-2870 The Radar Jamming Effectiveness
U of Various Types of Noise Signals.
6/45 K. M. Watson.
- R-2872 Submerged VLF Reception. A
U Study of Various Loop Coupling
12/46 Methods. S. V. Fratanni.
- R-2873 Preliminary Survey of Remote
U Control Wire Links for Model
7/46 DAJ-a Direction Finder Installa-
tions with Special Reference to
Distance up to 3000 Feet.
R. L. Haskins, S. F. George,
A. G. Loveberg.
- M-2874 An Investigation of the Proper-
U ties of Foundry Cores Made with
6/46 Two Types of Urea Formaldehyde
Binders. J. R. Kattus,
R. E. Morey.
PB109428, Mi\$2.00, Ph\$3.75.
- R-2875 Test of Model (RDH) Panoramic
U Search Equipment. R. W. Zeek.
6/46 PB120777, Mi\$3.30, Ph\$7.80.
- P-2876 The Navy Diaphragm Gas Mask
U Canister, Type B2.
5/46 H. F. Bogardus.
- P-2877 Chemical Studies on Fungicides,
U I, Correlation of Structure with
7/46 Fungicidity. W. E. Weaver,
W. M. Whaley.
PB100904, Mi\$1.75, Ph\$2.50.
- R-2878 Performance Tests of Model TDY-
U 1 Radar Jamming Transmitter.
7/46 W. F. Main.
PB120728, Mi\$3.60, Ph\$9.30.

Numerical Index

P-2879 - R-2925

- P-2879 Chemical Studies on Fungicides, II, Synthesis. W. E. Weaver, U
7/46 W. M. Whaley. PB114844, Mi\$2.75, Ph\$6.50.
- M-2880 A Precision Casting Investment Produced by Application of the Hydrometer and Cumulative Curve Methods. R. E. Morey. U
6/46 PB109443, Mi\$2.00, Ph\$3.75.
- H-2881 Geiger Counter Technique for X-Ray Diffraction, V, Particle Size Determination from Small Angle Scattering. L. S. Birks. U
7/46 PB107376, Mi\$2.00, Ph\$3.75.
- E-2882 Development of a Unit Generator Control Panel for Naval Aircraft Generators. A. T. McClinton. U
6/46
- R-2883 Cancelled.
- R-2884 Acceptability Tests of Model F-26/UPR Wave Trap. U
6/46 H. K. Weidemann. PB109440, Mi\$2.00, Ph\$3.75.
- R-2885 Determination of RC-120-B Facsimile Equipment Characteristics. A. D. Watt. U
6/46 PB120778, Mi\$5.40, Ph\$15.30.
- M-2886 The Effect of Temperature on Young's Modulus. R. N. Dean. U
11/46 PB114142, Mi\$2.25, Ph\$4.00.
- R-2887 RSD Submarine Antenna. U
6/46 J. W. Burkert, K. W. Bewig.
- R-2888 The Theory of Lead Computing Gunsights. A. S. Householder. U
12/46 PB120779, Mi\$8.70, Ph\$30.30.
- R-2889 Field Method Reduction of Bandwidth of Loran Receivers and the Effect on Operation. J. W. Brogden, H. D. Cubbage. U
6/46 PB109430, Mi\$2.25, Ph\$5.00.
- E-2890 Analysis of Environmental Test Methods for Aircraft Electrical Equipment. W. A. Ritchie. U
7/46
- O-2891 Penetration of Thin Hot Rolled Steel by 37 mm Model Projectile. U
8/46 P. Beij.
- R-2892 Interim Report on Type Test of AN/APA-5A. H. W. Herman, U
6/46 S. J. Weller. PB120780, Mi\$2.70, Ph\$4.80.
- H-2894 Flicker Noise in Vacuum Tubes. U
8/46 H. L. Clark. PB107509, Mi\$2.25, Ph\$5.00.
- H-2895 A Five C.P.S. Amplifier for Use with the Passive Bearing Finder, Final Report. H. L. Clark. U
7/46
- R-2896 Airborne Radio - Results of Engineering Performance Tests on Model AN/ARC-12 VHF Communications Equipment, Final Report. U
7/46 J. E. McGeogh, D. L. Fye, E. M. Smith, A. Gallant. PB120727, Mi\$6.30, Ph\$19.80.
- R-2897 Cancelled (Issued as 3024).
- R-2898 The Development and Testing of Pulse Doppler Aural Range Devices for Radar Equipments Mark 4 and Mark 12. U
12/45 L. W. Sessions, A. J. Stecca.
- M-2899 Cancelled.
- R-2900 Evaluation of Model CXFF Radio Direction Finder, submitted by Federal Telecommunications Laboratories. R. F. Gleason, U
7/46 J. H. Trexler. PB120728, Mi\$3.30, Ph\$7.80.
- E-2901 Investigation of Methods for Improving the Temperature Compensation of the Eclipse, Type 1001 and 1317 AC Carbon Pile Voltage Regulator. U
7/46 A. H. Barauck. PB123325, Mi\$2.40, Ph\$3.30.
- P-2902 The Biological Deterioration of Thiokol Linings for Gasoline Storage Tanks. U
7/46 F. H. Allen.
- B-2903 Tests for Information on Shaft Revolution Indicators, Magnetometer Type, submitted by Westinghouse Electric Co. U
10/46 P. B. Clark, G. Pida. PB123326, Mi\$2.70, Ph\$4.80.
- R-2904 Test of 1/4 H.P. and 1/2 H.P. Low Inertia AC Servo Drive Motors. U
7/46 H. M. Ikerd.
- P-2905 Cancelled.
- R-2906 Factors Affecting Choice of Operating Frequency for Electronic Recognition and Identification System. U
7/46 L. S. Schwartz.
- R-2907 Cancelled.
- P-2908 Investigations of Methods of Increasing Life and Capacity of Lead Acid Storage Batteries, I, Preliminary Study of Methods for Evaluating the Corrosion Resistance of Positive Grid Material. U
1/47 W. H. Power, S. W. Rabideau, R. A. Kern, R. T. Pierce, J. J. Lander. PB107841, Mi\$3.75, Ph\$11.25.
- P-2909 Synthetic Ocean Water. U
8/46 T. P. May, C. E. Black. PB116255, Mi\$2.75, Ph\$6.50.
- R-2910 Test Set TS-146/UP Spectrum Analyzer. J. R. Ambrose. U
7/46 PB123327, Mi\$2.25, Ph\$3.30.
- R-2911 Radio Transmitter Model T200FK39 Captured German Submarine Transmitter. U
7/46 C. L. Spencer, B. Fisk.
- R-2912 Servo Amplifier for the 25 Watt and 50 Watt Low Inertia Diehl Servo Motor. H. M. Ikerd. U
7/46 PB123328, Mi\$1.80, Ph\$1.80.
- M-2913 Some Observations on the Weldability of High Strength Wrought Aluminum Alloys. U
9/46 W. R. Applelt, Jr. PB110806, Mi\$1.75, Ph\$2.50.
- P-2914 Decontamination of Landing Craft at San Jose Island. G. H. Fielding, U
7/46 J. E. Johnson, J. A. Krynitaky. PB123329, Mi\$6.90, Ph\$21.30.
- P-2915 Thermal Evaluation of Formvar Resin. J. R. Bukay. U
7/46 PB103102, Mi\$2.00, Ph\$3.75.
- R-2916 Servo Amplifier for 1 H.P. Diehl Low Inertia Servo Motor. H. M. Ikerd. U
7/46 PB123330, Mi\$1.80, Ph\$1.80.
- R-2917 Shock and Vibration Test of Weston Sensitron 813 Servo Mixing Relay. H. M. Ikerd. U
8/46
- M-2918 Melting of Gray Iron in an Oil Fired Crucible Furnace. U
8/46 J. R. Power.
- R-2919 Design Factors for Modification of Model DAJ into DAJ-a Radio Direction Finding Equipment. U
11/46 W. C. Meilander.
- R-2920 Final Report on Type Test of TS-406/UP Test Oscillator. U
7/46 I. W. Fuller, M. L. Iurnett.
- R-2921 Vibration, Shock and Salt Spray Test of the 1/4 H.P. Diehl Low Inertia AC Servo Motor. U
8/46 H. M. Ikerd. PB120729, Mi\$1.80, Ph\$1.80.
- P-2922 Investigation of Cuprous Oxide Anti-Fouling Paint, II, Inactivation of Highly Pigmented Films Containing Metallic Copper. U
7/46 R. L. Benemelis, J. E. Huskey, A. L. Alexander. PB78676, Mi\$1.00, Ph\$3.00.
- P-2923 The Development of Rust Inhibitors for the "Ucon" LB and HB Series Synthetic Lubricants. H. R. Baker, U
7/46 W. A. Zisman.
- R-2924 Development of the Antenna (Identification) Mark 18 Mod O. U
10/46 P. A. Lantz, R. J. Adams. PB123331, Mi\$3.00, Ph\$6.30.
- R-2925 An 800 Megacycle Per Second Intermediate Frequency Amplifier. W. R. Faust. U
8/46

R-2926 - R-2965

Naval Research Laboratory

- R-2926 An Approximate Supersonic Wind Tunnel Simulator. 7/46 A. H. Schooley. PB49841, Mi\$1.00, Ph\$2.00.
- V-2927 The Design of Vibration-Isolating Bases for Machinery. 8/46 C. E. Crede, J. P. Walsh. PB49843, Mi\$1.00, Ph\$2.00.
- P-2928 Ship-Bottom Paint Systems, II, Studies of the Characteristics of Underwater Primer Vehicles Fortified with Various Resins. 8/46 S. B. Crecelius, F. Arndt, J. E. Huskey.
- R-2929 Test of Model RDZ-1 Radio Receiving Equipment. 8/46 W. E. W. Howe. PB123332, Mi\$3.90, Ph\$10.80.
- R-2930 A Preliminary Study of the Frequency Spectrum Associated with the Idealized Beam Rider Missile. L. O. Brown. 2/47
- P-2931 Preliminary Report on Viscosity Determinations on a Potassium-Sodium Alloy. 8/46 R. Ruskin, C. T. Ewing, R. R. Miller.
- S-2932 Supersonic Measurement of Wall Thickness in Diesel Liners. 8/46 II. F. W. Struthers. PB112057, Mi\$2.25, Ph\$5.00.
- M-2933 Measurement of Vibration on the USS FRANKLIN D. ROOSEVELT CVB-42, I, After Mark 37 Main Battery Director. 8/46 C. B. Cunningham.
- R-2934 Servo Drive for Stabilized Turntable. 8/46 H. M. Ikerd. PB123334, Mi\$2.40, Ph\$3.30.
- R-2935 Multiposition Coaxial Switch. 8/46 J. W. Burkert. PB123335, Mi\$1.80, Ph\$1.80.
- H-2936 German Lead Sulfide Cell as a Detector of Surface Vessels. 8/46 H. L. Clark.
- V-2937 Measurement of Vibration on the USS FRANKLIN D. ROOSEVELT (CVB-42), II, SK, SX, and SR Radar Antenna Masts. 8/46 R. W. Conrad. PB123336, Mi\$2.40, Ph\$3.30.
- R-2938 Evaluation of Model FSD Frequency Shift Equipment for Naval Use. 8/46 M. F. Hodges. PB123337, Mi\$3.90, Ph\$10.80.
- R-2939 A Survey of the Development of Mortar Location. 11/46 R. R. Crane.
- M-2940 Cancelled.
- R-2941 Television - Interim Report on a System for High Speed Communication. 7/46 L. L. George.
- R-2942 Final Report on Type Test of TS-299/UP Standing Wave Indicator. 8/46 C. B. Barnes.
- R-2943 Development of a Low Power Pulse Transmitter for the Frequency Range 3800-5000 Mc. 9/46 W. H. Paulsen, J. H. Markell.
- P-2944 A Summary of Progress in Developing Non-Flammable Hydraulic Fluids for Use in Aircraft. 8/46 R. O. Miltz, D. R. Spessard, W. A. Zisman. PB109423, Mi\$1.75, Ph\$2.50.
- R-2945 Amplifier for the Diehl Low Inertia 4, 5 and 10 Watt AC Servo Motors. 8/46 H. M. Ikerd.
- P-2946 Ship Bottom Paint Systems, III, A Study of Tall Oil and Tall Oil Esters as Possible Rosin Substitutes in Anti-Fouling Paints. 8/46 S. B. Crecelius, W. H. Stewart, R. L. Benemelis, J. E. Huskey. PB109345, Mi\$4.50, Ph\$13.75.
- M-2947 Microradiography of Gray Cast Iron. 12/46 E. I. Salkovitz, J. H. Schaum, F. W. Von Batchelder. PB109421, Mi\$2.00, Ph\$3.75.
- M-2948 The Suitability of the Lehigh Restrained Cracking Weldability Specimen for Naval Service. 8/46 J. A. Rinebolt. PB109344, Mi\$2.00, Ph\$3.75.
- R-2949 Comparison of Performance of AN/CRD-2, DAU and FH 4 Radio Direction Finders. 12/46 E. H. Flath, Jr., W. C. Meilander. PB123338, Mi\$3.60, Ph\$9.30.
- R-2950 Vibration, Shock and Salt Spray Tests of 5, 10 and 25 Watt Diehl and 5 Watt Blake Low Inertia A-C Servo Motor. 8/46 H. M. Ikerd. PB123339, Mi\$2.40, Ph\$3.30.
- H-2951 Gamma Ray Fuel Quantity Gauge. 9/46 H. Friedman, Co. O. Muehlhauser, J. J. Nemecek.
- R-2952 Test of Model AN/RUQ-1 Stop-Watch Equipment. 10/46 C. J. Black. PR122779, Mi\$3.00, Ph\$6.30.
- P-2953 Anodic Aluminum Oxides - A Preliminary Report on Methods of Preparation and Their Transport Properties. 8/46 R. L. Burwell, Jr., T. P. May. PB109427, Mi\$4.50, Ph\$13.75.
- H-2954 A Survey of Thermal Radiation from Surface Vessels, II, April 1946 - August 1946. 9/46 H. L. Clark.
- R-2955 Upper Atmosphere Research Report No. 1, Part I, compiled and edited by H. E. Newell, Jr. and J. W. Stry. (Series of Articles, by E. H. Krause, C. H. Smith, Jr., J. T. Mengel, W. V. Foley, H. C. Hanks, V. L. Heeren, C. H. Hoepfner, J. R. Kauke, S. W. Lichtman, and P. R. Schiflett). 10/46 PB107014, Mi\$7.50, Ph\$26.25.
- R-2956 Upper Atmosphere Research Report No. 1, Part II, Ionization experiments in the V-2. 10/46 M. Becker, R. E. Bourdeau, T. R. Burnight, W. F. Fry. PB120730, Mi\$2.70, Ph\$4.80.
- R-2957 Interim Report on Type Test of AN/APS-20A. 8/46 C. B. Barnes, I. W. Fuller. PB122780, Mi\$2.40, Ph\$3.30.
- P-2958 Vapor-Liquid Equilibria for Mixtures of Alkali Metals (Sodium-Potassium), NDRC-Div. B. 4/41 PB109441, Mi\$1.75, Ph\$2.50.
- R-2959 Type and Systems Test of AN/APS-4A. 9/46 C. B. Barnes.
- R-2960 Analysis and Evaluation of Model RDR Receiving Equipment Characteristics for Naval Service. 10/46 W. E. W. Howe. PB122763, Mi\$3.90, Ph\$10.80.
- V-2961 Measurement of Vibration Amplitudes and Frequencies on the USS JUNEAU CL-119. 8/46 C. B. Cunningham, E. E. Bissell, Jr. PB122764, Mi\$1.80, Ph\$1.80.
- R-2962 Gun Launched Guided Missiles. 8/46 A. H. Schooley.
- O-2963 Characteristics of Short Radius Tube Bends, III. 10/46 T. E. Pardue, P. S. Symonds, H. A. Jarrell. PB107850, Mi\$7.75, Ph\$27.50.
- P-2964 Borohydrides - Final Report on Contract 173a-10421 from University of Chicago. 7/46 H. I. Schlesinger. PB109429, Mi\$3.75, Ph\$11.25.
- R-2965 Airborne Radio - Results of Engineering Performance Tests on Model TS-329/U Phantom Antenna. 9/46 W. J. J. Klein, O. L. Wilkins. PB122765, Mi\$2.40, Ph\$3.30.

Numerical Index

R-2966 - P-3010

- R-2966 Results of Engineering Tests of
U Model AN/ARC-13 (KN-1) Serial
9/46 No. 1, UHF Communications
Transmitter and Receiver.
V. O. Smallwood, R. C. Miedke.
PB122766, Mi\$4.50, Ph\$12.30.
- R-2967 Interference Analysis of 100
U Primary Communication Chan-
12/46 nels, 225-400 Mc (TDZ-RDZ
Equipments). A. W. Walters.
- R-2968 Cancelled.
- V-2969 Application of the Inherent
U Flexibility Factor in the Design
9/46 of a Mounting System.
M. W. Maier.
PB109431, Mi\$1.75, Ph\$2.50.
- R-2970 Systems Tests of Block X FM
U Relay Radar Link.
12/46 R. M. Alexander.
- R-2971 R. F. Antenna Filters for
U Project Cadillac.
12/46 D. E. Mode, L. W. Nosker.
- R-2973 Application of Harp for the
U Elimination of the Altitude
9/46 Lane. R. W. Wright,
M. H. Johnson.
- R-2974 Analysis and Type Tests of Re-
U mote Control-Indicator Systems
9/46 for MAR, RDR, and RDZ Radio
Communications Equipments.
J. W. Klotz.
PB122767, Mi\$3.30, Ph\$7.80.
- O-2976 A Comparative Study of the
U Chamberlain Mount and Other
9/46 Shock and Vibration Mounts.
P. S. Symonds, E. W. Kammer,
R. C. Nowak.
PB109432, Mi\$2.00, Ph\$3.75.
- O-2977 Description and Use of Electron
U Micrometer Tube, Type C769A.
10/46 J. B. Peterson.
PB109433, Mi\$1.75, Ph\$2.50.
- R-2978 Investigation of the Factors In-
U volved in the Development of a
9/46 Continuously-Variabe Receiver
(Model XCS-2) for the 225-400
Mc Frequency Range.
R. M. Maiden, J. K. Steckel.
- P-2979 K-Band Harp Material Formula
U Development. H. A. Tanner.
10/46
- P-2981 Status Report on the Effect of
U Overvoltage, Voltage Regula-
10/46 tion, Altitude, and the Ratio of
Electrolyte to Active Material
on the Characteristic of Air-
craft Storage Batteries.
M. H. Boyer, R. A. Friend.
PB109434, Mi\$2.25, Ph\$4.00.
- O-2982 Liquid Thermal Diffusion.
U Edited by P. H. Abelson,
9/46 N. Rosen, J. I. Hoover.
- M-2983 Segregation in Small Steel
U Castings. H. F. Bishop,
12/46 K. E. Fritz.
- R-2984 Survey of Tuned Circuits for the
U 300 to 3000 Mc Frequency Range.
9/46 F. C. Isely.
PB114276, Mi\$2.50, Ph\$5.25.
- R-2985 Development of Preselector
U Units Covering the Frequency
11/46 Ranges 85 to 180 Mc, 175 to
355 Mc and 350 to 700 Mc.
M. F. Davis, F. C. Isely.
- R-2986 Cancelled (Issued as letter
report C-1240-34/47).
- P-2987 Manufacture of Harp Film by
U the Spraying Method.
10/46 H. A. Tanner, E. L. Jones.
- R-2988 MAR Vehicular Antenna.
U K. W. Bewig.
10/46
- R-2989 Antenna Pattern Plotter for
U Frequencies to 10,000 Mega-
3/47 cycles Per Second.
H. K. Weidemann.
- R-2990 Slotted Line Impedance Measure-
U ments Through Arbitrary
10/46 Lengths of Solid Dielectric
Cables. K. W. Bewig.
- R-2991 Radar Homing System for Ex-
U pendable Radio Sono Buoy
1/46 AN/CRT-1B. J. M. Miles.
PB120732, Mi\$2.40, Ph\$3.30.
- R-2992 Multiple Transmitter and
U Receiver Operation on a Single
12/46 Antenna (225 to 390 Mcs).
L. R. White.
- M-2993 Solidification Characteristics of
U Gray Cast Iron. J. E.
10/46 Fitfield, J. H. Schaum.
- R-2994 A Wide Range, Wide Band FM
U Oscillator. R. C. Wyman.
10/46
- M-2995 Cancelled (Issued as M-3025).
- B-2996 Glare Reduction of Low Re-
U flection Coatings on Instrument
10/46 Windows. J. D. Haynsworth.
- R-2997 Interim Report on Type Test,
U AN/APS-19. M. L. Burnett,
10/46 J. W. Fuller.
PB122642, Mi\$2.40, Ph\$3.30.
- R-2998 Evaluation of the VHF Band of
U A 140-600 Mc Experimental
1/47 Radio Direction Finder
Developed by the Federal
Telephone and Radio Co. Under
Contract OEMsr-961.
K. O. Hornberg.
PB120731, Mi\$2.70, Ph\$4.80.
- R-2999 Jeep Mounting of "RCA" MAR
U Antenna. J. W. Burkert.
10/46 PB120733, Mi\$2.40, Ph\$3.30.
- P-3000 Loss Factor and Dielectric Con-
U stant Curves for Pure Diesters.
11/46 E. G. Myer, C. Rogalski,
M. A. Elliott.
- R-3001 Airborne Radio - Results of
U Engineering Performance Tests
10/46 on Model AN/ARC-2 MHF Com-
munications Equipment.
R. C. Miedke, N. L. Molloy.
- O-3002 Testing Methods and Comparative
U Tests of Torsionmeters.
12/46 F. I. Louckes, Jr., W. A. VonWald,
M. Wilson.
PB107851, Mi\$6.25, Ph\$21.25.
- P-3003 Ammonia Desorption Studies on
U Type ASC Gas Mask Absorbent.
11/46 J. K. Thompson, H. F. Bogardus.
- M-3004 Radiographic Film Processing
U Units. S. B. Page,
11/46 H. F. Kaiser.
PB110807, Mi\$2.00, Ph\$3.75.
- R-3005 Factors Affecting Choice of Trans-
U mission Frequencies for Line-of-
10/46 Sight Systems. L. S. Schwartz.
- R-3007 Signal Threshold Studies.
U R. M. Ashby, V. Josephson,
12/46 S. G. Sydorak.
PB110769, Mi\$3.00, Ph\$10.00.
- R-3008 The Effects of Video Mixing
U Ratio and Limiting on Signal
2/46 Threshold Power. S. G. Sydorak.
PB129266, Mi\$3.00, Ph\$6.30.
- P-3009 Performance of Six Inch Aero-
U resonators. D. S. Burgess,
12/46 T. K. Rice, S. H. Smith, Jr.,
D. Weisinger.
PB129267, Mi\$3.00, Ph\$6.30.
- P-3010 Quarterly Progress Report on the
U Measurement of the Physical and
9/46 Chemical Properties of the
Sodium-Potassium Alloy, I.
C. T. Ewing, R. R. Miller.
PB129268, Mi\$4.50, Ph\$12.30.

- P-3011 Ship Bottom Paint Systems. V.,
U Factors Influencing the Performance
12/46 of Standard Ship Bottom Paint
Systems. J. E. Huskey,
A. L. Alexander.
PB106677, Mi\$2.00, Ph\$3.75.
- P-3012 Anti-Corrosive Coatings for
U Magnesium. II., Tide Level Resistance.
12/46 J. E. Cowling, R.
Freriks, J. A. Suther.
- R-3013 Telemetering Equipment Developed
U and Provided by the Naval
10/46 Research Laboratory for General
Use in the V-2 Firings. V. L.
Heeren, C. H. Hoepfner, J. R.
Kauke, S. W. Lichtman,
P. R. Shufflett.
PB129269, Mi\$3.30, Ph\$7.80.
- M-3014 The Naval Research Laboratory
U Betatron Laboratory. H. F.
11/46 Kaiser, D. L. Mock, O. E. Berg,
D. K. Stevens, W. E. Harris.
PB110806, Mi\$3.00, Ph\$8.75.
- B-3017 Investigation of a Centralized
U Combat Information Center
12/46 Communications Unit, submitted
by Guided Radio Corp. W. W.
Rosenberry, H. G. Shafer.
- H-3018 The Effect of Natural and Accelerated
U Weathering on Luminous
11/46 Material. L. H. Dawson.
- H-3019 The Development of the Infrared
U Annunciator System. I.
11/46 M. A. Guleo.
- P-3020 The Development of the Hydrolube
U Non-Inflammable Hydraulic Fluids.
4/47 J. G. O'Rear, R. O. Militz, D. R.
Spessard, W. A. Zisman.
PB109091, Mi\$4.25, Ph\$12.50.
- H-3021 Interpretation of Electron Diffraction
U Patterns from Hydrocarbon
2/47 Films. J. Karle, L. O. Brockway.
PB97702, Mi\$2.00, Ph\$3.75.
- R-3022 A Joint Report on the Development
U of Gun Fire Control System
4/47 Mark 81 Mod. 0-2. C. H. Shaw
(Applied Physics Lab.) and P.
Waterman (Naval Research Lab.)
Volume I.
Volume II. (Compilation of Papers).
Appendix A. P. J. Larsen.
Appendix B. E. P. Ney, E. W.
Smith, J. L. Young.
Appendix C. C. M. Antoni.
Appendix D. R. L. Jones.
Appendix E. Anonymous.
Appendix F. P. J. Larsen.
Appendix G. Anonymous.
- R-3023 Some Observations of Atmospheric
U Noise and Propagation Factors
12/46 in the Arctic Report on Project
"Nanook." W. M. Rieth.
PB122129, Mi\$3.30, Ph\$7.80.
- R-3024 Field Method of Amplitude
U Balance Changes of Loran Receivers
10/46 and the Effect on
Operation. A. E. Craig,
J. W. Brogden.
PB129270, Mi\$3.30, Ph\$7.80.
- M-3025 Convection Currents in Gray
U Cast Iron. J. H. Schaum.
12/46 PB98793, Mi\$2.00, Ph\$3.75.
- R-3027 Design Evaluation of AN/CRC-7
U Equipment. L. M. Wrye,
12/46 C. L. Uniacke.
- P-3028 Cancelled.
- R-3029 Survey of Features of German
U Powdered Iron Components.
9/46 S. G. Lutz.
PB109270, Mi\$5.25, Ph\$16.50.
- R-3030 Upper Atmosphere Research
U Report No. II, Part I, Compiled
12/46 and Edited by H. E. Newell, Jr.
and J. W. Siry (Series of Articles
by H. E. Newell, Jr., J. T. Mengel,
C. C. Rockwood, J. R. Kauke,
R. E. Taylor, K. M. Uglow, F. S.
Johnson, J. J. Oberly, C. V. Straun,
R. Tousey, N. R. Best, E. Durand,
R. J. Havens, E. H. Krause, G. J.
Perlow, B. Howland, M. L. Kuder,
T. M. Moore, J. C. Seddon, T. A.
Bergstrahl, M. W. Rosen, C. H.
Smith, M. A. Garatens, and
E. Pressly).
PB107039, Mi\$6.25, Ph\$21.50.
- R-3031 Upper Atmosphere Research Report
U No. II, Part II., Ionization
12/46 Experiments in the V-2.
M. Becker, R. E. Bourdeau,
T. R. Burnight.
- R-3032 Cancelled.
- P-3033 Analysis of Insecticide "666"
U (1, 2, 3, 4, 5, 6, Hexachloro-
2/47 cyclohexane) by Infrared Spectroscopy.
L. W. Daasch,
D. C. Smith.
PB129271, Mi\$3.00, Ph\$6.30.
- E-3034 Evaluation of CEE (German)
U Obtained by Naval Technical
12/46 Mission to Europe. M. Trbovich.
PB109272, Mi\$3.50, Ph\$10.00.
- E-3035 Comparison of Method of Parallel
U Operation of Aircraft Generators
12/46 in an Electrical System.
B. C. Bingham.
PB129272, Mi\$3.30, Ph\$7.80.
- R-3036 Removal of Mast Reflections by
U Harp in the SG Installation
12/46 Aboard Destroyers. R. W.
Wright, M. H. Johnson.
- R-3037 Cancelled (Issued as R-3042).
- R-3038 Cancelled (Issued as Letter
Report 1240-1-47).
- P-3039 The Analysis and Properties of
U German Polyethylene Oils.
1/47 C. M. Murphy, C. E. Saunders.
PB97790, Mi\$2.00, Ph\$3.75.
- M-3040 Properties of Quenched and
U Tempered HTS Plate. E. B.
1/47 Westall, R. P. Dunphy.
PB109271, Mi\$2.50, Ph\$6.25.
- R-3041 Cancelled (Issued as R-3110).
- R-3042 Design and Development of
U Antennas and R. F. Components
1/47 for Simultaneous Lobing Radar.
H. L. Gerwin.
- R-3043 Investigation of Characteristics
U of Model CXKQ Radio Control
1/47 Equipment for Naval Air Station
Control Towers. C. R. Neth.
PB129273, Mi\$3.90, Ph\$10.80.
- P-3044 Some Derivatives of Organophosphorus
U Acids. W. T. Dye, Jr.
12/46 PB114856, Mi\$3.00, Ph\$7.75.
- R-3045 An Experimental X-Band Radar
U Antenna for Submarine Periscope
2/47 H. Davenport, C. Mayer,
F. Haddock.
- R-3046 Research and Development Resulting
U in an Improved Radio Scanning
1/47 Adapter for Communication
Reception. R. W. Zeek.
- P-3047 Properties, Naval Uses and Effect
U on Non-Ferrous Metals of
1/47 Vapor Phase Inhibitors, V.P.I.
220 and 260. H. R. Baker.
PB98664, Mi\$2.50, Ph\$6.25.
- R-3048 Evaluation of Model OCQ
U Reradiation Frequency Meter.
1/47 M. J. Sheets.
- R-3049 3800-5000 Mc Horn Antenna for
U Calibration of DBM-1 Equipment.
1/47 K. W. Bewig.
- R-3050 Interference Analysis of 100
U Primary Communication Channels
2/47 and Guard Channels 225-400 Mc
(TDZ-RDR Equipment).
A. W. Walters.
- R-3051 Interference Analysis of 100
U Primary Communication Channels
5/47 and Guard Channels 225-400 Mc
(MAR-RDZ Equipments).
A. W. Walters.
PB129274, Mi\$3.00, Ph\$6.30.

Numerical Index

R-3052 - E-3095

- R-3052 Interference Analysis of 100
U Primary Communication Channels
6/47 and Guard Channels 225-400 Mc
(RDR-MAR). A. W. Waters.
PB129275, Mi\$2.70, Ph\$4.80.
- R3053 Test of RSD Submarine Antenna
U #2. W. E. Withrow.
1/47
- R-3054 The Input and Output Admittances
U of the 6AG5 Tube in the V.H.F.
n.d. Range E H Hurlburt.
PB129276, Mi\$3.30, Ph\$7.80.
- R-3055 Technical Evaluation of Model
U AN/APA-48 Airborne Radio
2/47 Direction Finder. S. M. Rice
- R-3056 Frequency Instability in Cavity
U Resonators Made of Metal.
1/47 H. L. Wuerffel, L. Schlesinger
- P-3057 Quarterly Progress Report on the
U Measurements of the Physical and
1/47 Chemical Properties of the Sodium-
Potassium Alloy. II. C. T. Ewing,
R. S. Hartman.
PB113079, Mi\$2.00, Ph\$3.75.
- R-3058 Notes on Development of Systems
U for Common Antenna Working
6/47 (230-390 Mc). L. G. Robbins,
O. Norgorden.
PB129277, Mi\$3.00, Ph\$6.30.
- R-3059 Analysis of Channel Interference
U on Communications Systems
8/47 (225 to 400 Mc). A. W. Walters.
- H-3060 A Survey of Thermal Radiation
U from Surface Vessels. III.
5/47 (Sept. 1946 - Nov. 1946).
D. L. Byer.
- B-3061 Evaluation of Experimental Model
U of Propeller Shaft r.p.m. Master
5/47 Indicator-Transmitter, submitted
by Electric Tachometer Corp.
G. Pida, G. K. C. Hardesty.
- B-3062 Tests for Information Wind Systems
U (Captured German Equipment).
3/47 R. Gareau.
- R-3063 Cancelled.
- O-3064 Partial Report on Gas Pulsator,
U (Pulse Jet). IV. D.W. Baker
8/47 G. C. Milak, C. D. Porter.
PB113632, Mi\$6.50, Ph\$21.50.
- R-3065 A Pressurized Mercury Delay
U Line for Fleet Service.
4/47 T. H. Chambers.
- P-3066 Final Report on Reflection
U Reducing Coatings. L. B. Lockhart.
n.d. PB129279, Mi\$2.70, Ph\$4.80.
- R-3067 Cancelled (Issued as Letter Report
1240-71-47, June 1947).
- H-3068 The Contribution of Restricted
U Rotation to Electron Scattering
2/47 by Gases. J. Karle.
PB129278, Mi\$2.40, Ph\$3.30.
- H-3069 Sky Radiation Measurements at
U White Sands, New Mexico.
2/47 C. P. Butler, G. L. Harvey.
PB129280, Mi\$2.70, Ph\$4.80.
- R-3070 Lark-Wasp Guided Missile
U Seminar. A. S. Locke.
1/47 Appendix 1, C. R. Lemonier.
Appendix 2, C. D. Perrine, Jr.
Appendix 3, J. J. Jerger.
- R-3071 The Effects of Ground Reflections
U and Antenna Characteristics on
6/47 Control Lines for Beam Riding
Missiles. W. S. Ament.
- R-3072 Characteristics of Experimental
U Model CXKB Frequency-Shift
4/47 Receiver Converter Equipment.
R. W. Zeek.
PB129415, Mi\$3.00, Ph\$6.30.
- C-3073 Tropical Exposure Facilities of
U the Naval Research Laboratory.
4/47 J. M. Leonard.
PB94628, Mi\$1.25, Ph\$1.25.
- R-3074 An X-Band Electronic Attenuator
U Switch and TR Tube.
3/47 A. E. Hastings.
- R-3075 Lark-Wasp Guided Missile
U Seminar. A. S. Locke.
2/47 Appendix 1, R. E. Gaylord,
C. W. Stoops
Appendix 2, C. L. Key, Jr.
Appendix 3, L. R. Philpott
Appendix 4, J. H. McQuilkin.
- N-3076 The Effect of Shipboard Exposure
U on the Useful Life of
4/47 Phosphorescent Tape.
E. S. Estey, L. H. Dawson.
PB129414, Mi\$2.70, Ph\$4.80.
- S-3077 Shock and Vibration Bulletin,
U No. 2. Shock or Blast Injuries.
3/47 R. H. Draeger. Vibration
Studies on the Human Body,
by D. E. Goldman; The
Askania Vibrograph, by
C. B. Cunningham.
- R-3078 NRL Lark-Wasp Guidance
U Program. W. C. Hodgson.
4/47
- N-3079 The Discharge Mechanism of
U Self-Quenching G-M Counters.
5/47 S. H. Liebson, I. H. Blifford.
PB129416, Mi\$2.70, Ph\$4.80.
- R-3080 Paired Pulse Decoders
U Providing Echo Suppression.
4/47 M. Birnbaum.
- N-3081 A High-Temperature X-Ray
U Diffraction Apparatus.
4/47 L. S. Birks, H. Friedman.
PB94627, Mi\$1.75, Ph\$2.50.
- R-3082 Fixed and Variable Frequency
U Oscillators with Improved
5/47 Frequency Stability.
F. M. Gager, J. M. Headrick.
PB129148, Mi\$1.80, Ph\$1.80.
- R-3083 Photography from the V-2
U Rocket at Altitudes Ranging
4/47 Up to 160 Kilometers.
T. A. Bergstrahl.
PB128229, Mi\$3.00, Ph\$6.30.
- R-3084 A New Type of Fixed Echo
U Canceling Device.
5/47 I. H. Page.
- 3085 Bibliography of NRL Published
U Reports October 1933 - March
4/47 1947.
Supplement No. 1, April 1947
to Feb. 1948.
Supplement No. 2, Feb. 1948 to
Sept. 1948.
- R-3087 A Wide-Range Look-Through
U Receiver. I. H. Page,
7/47 R. E. Ellis.
PB129150, Mi\$2.40, Ph\$3.30.
- R-3088 Performance Tests on Five
U New Types of Rope.
6/47 S. K. Brown.
- R-3089 Development of Components for
U X_a Frequency Band.
5/47 R. G. Fellers.
PB129149, Mi\$2.40, Ph\$3.30.
- R-3090 Recommended Research Program
U for Development of Mid-Course
4/47 Guidance System for Lark.
A. S. Locke.
- R-3091 Shipborne Radar Fire Control
U from the System Viewpoint.
5/47 R. M. Page, J. B. Trevor, Jr.
PB129151, Mi\$2.40, Ph\$3.30.
- R-3092 Investigation of Direction Finders
U for 200-400 Mc/s.
6/47 A. Brodzinsky, R. S. Timm,
A. B. Winnick.
- R-3093 The Properties of Anodic Aluminum
U Oxides, a Study of the Surface
4/47 Roughness. R. L. Burwell, Jr.
P. A. Smudski, T. P. May.
PB114143, Mi\$3.00, Ph\$7.75.
- R-3094 Lark-Wasp Guided Missile
U Seminar. A. S. Locke.
3/47 Appendix 1, A. S. Locke
Appendix 2, R. M. Page
Appendix 3, A. H. Schooley.
- E-3095 Electrically Induced Heating of
U 20 mm Aircraft Machine Gun.
6/47 J. M. Marzolf.
PB129152, Mi\$3.00, Ph\$6.30.

- R-3096 Progress Report of the NRL
U Pulse Control System XBA -
6/47 XBB. J. T. Burke,
F. E. Huggin,
S. S. Levine.
- N-3097 Optical Radiation from Acid-
U Aniline Jet Flames.
7/47 J. A. Curcio,
C. P. Butler.
- R-3098 An Automatic Scoring Device for
U Gun Fire Control Systems Mark
6/47 57 and Mark 63.
H. P. Birmingham,
R. S. Sackett.
PB107865, Mi\$1.25, Ph\$1.25.
- R-3099 Pulse Shape in the Loran System.
U
6/47 A. W. Coven.
PB129153, Mi\$1.80, Ph\$1.80.
- C-3100 The NRL Fog Cabinet, the A&N
U Aeronautical Specification
7/47 Humidity Cabinet.
H. R. Baker,
D. T. Jones.
PB111044, Mi\$2.00, Ph\$2.75.
- R-3101 The Development of a Guided
U Missiles Telemetering System
7/47 for KUV-1. A. J. Stecca,
V. J. Guethlen.
PB129154, Mi\$2.40, Ph\$3.30.
- R-3103 KAQ-1 Lark Beam-Rider
U Trajectory Analysis
6/47 C. H. Dodge.
- S-3104 A Time Interval and Reference
U Line Marker for Moving Film
6/47 Photography of Oscilloscope
Traces.
E. W. Kammer.
PB129155, Mi\$1.80, Ph\$1.80
- C-3105 Quarterly Progress Report on
U the Measurement of the Physical
4/47 and Chemical Properties of the
Sodium-Potassium Alloy. III.
C. T. Ewing, R. S. Hartman,
H. B. Atkinson, Jr.,
R. R. Miller.
PB117012, Mi\$2.25, Ph\$4.00.
- S-3106 Shock and Vibration Bulletin,
U No. 3. The History and Develop-
5/47 ment of the High-Impact Shock-
Testing Machine for Lightweight
Equipment, by R. H. Oliver;
Application of the Lightweight
HI Shock Machine, by W. H.
Hoppmann; Development of NOL
Shock and Vibration Test Equip-
ment; NOL Shock and Vibration
Test Equipment; David Taylor
Model Basin Shock and Vibration
Equipment; A Device for Mechan-
ical Test of Electronic Equipment,
by O. Norgorden and
F. J. Shanahan.
- C-3107 Hydrides and Borohydrides of
U Light Elements, Progress
4/47 Report No. XXVI.
H. I. Schlesinger,
A. E. Finholt.
PB97123, Mi\$2.00, Ph\$3.75.
- R-3108 Lark-Wasp Guided Missile
U Seminar. A. S. Locke.
4/47 Appendix 1, J. W. Titus,
P. Waterman
Appendix 2, R. E. Gaylord
Appendix 3, C. H. Dodge
Appendix 4, F. M. Gager.
- R-3109 Equipment for Measurement of
U Radar Area of V-2 Rocket.
6/47 D. L. Ringwalt,
W. F. Main.
PB129156, Mi\$2.40, Ph\$3.30.
- R-3110 A Dynamic Standing-Wave
U Indicator. P. J. Allen.
6/47 PB129157, Mi\$1.80, Ph\$1.80.
- R-3111 Statistical Methods in the Design
U and Development of Electronic
7/47 Systems.
L. S. Schwartz.
PB94625, Mi\$2.75, Ph\$7.50
- R-3112 K-Band Harp. R. W. Wright,
U
7/47 M. H. Johnson,
H. A. Tanner.
- R-3113 Three Dimensional PPI Displays
U by Stereoscopic Methods.
6/47 B. F. Harrell,
D. C. Cook.
- C-3114 Volatile Compounds as Fungicides.
U
7/47 W. L. Clark,
J. M. Leonard.
PB129158, Mi\$3.00, Ph\$6.30.
- R-3115 Preliminary Design of the Direc-
U tion Finder Unit for the AN/
6/47 SPR-4 Submarine Equipment.
F. Harris, J. R. Gruber.
PB129159, Mi\$2.40, Ph\$3.30.
- R-3116 An Electronically-Lobed
U Tracking and Guiding Radar.
6/47 O. F. Foin, Jr.,
P. J. Allen.
- C-3118 Investigation of Silicone
U Polymer Fluids, VII, Thermal
5/47 and Oxidation Stabilities of the
Polymethylsiloxanes.
D. C. Atkins, C. M. Murphy, Jr.,
C. E. Saunders.
PB97607, Mi\$1.75, Ph\$2.50.
- R-3120 Upper Atmosphere Research
U Report No. III (Part I) compiled
4/47 and edited by H. E. Newell, Jr.
and J. W. Siry (Series of reports
by E. H. Krause, E. Durand,
R. Tousey, G. J. Perlow,
T. R. Burnight, J. C. Seddon,
N. R. Best, R. J. Havens,
T. A. Bergstrahl, C. H. Smith, Jr.,
and J. T. Mengel).
PB106998, Mi\$3.00, Ph\$8.75.
- R-3121 Off-Frequency Beacon Receiver
U Attachment for APS-20 Radar.
6/47 C. T. Curtis.
- R-3122 Bibliography of Antenna Reports,
U compiled by Antenna Research
7/47 Section.
PB129160, Mi\$3.60, Ph\$9.30.
- R-3123 Video Mixing and Minimum
U Detectable Signal in the SPS-2
9/47 Radar. H. W. Lance,
G. D. M. Peeler, C. R. Randall.
- R-3124 Link Verification.
U
1/47 M. G. Kaufman, E. Harrison,
C. O. Olson, R. Larson.
- E-3125 Electric Cable Research-
U Investigation of Transmission
5/47 Characteristics of Three-
Conductor Power Cable in
Use by the U. S. Navy.
S. D. Summers.
PB94626, Mi\$2.00, Ph\$3.75.
- R-3126 Rapid Impedance Matching with
U a Variable Asymmetrical Iris.
6/47 M. D. Adcock.
PB129161, Mi\$2.40, Ph\$3.30.
- R-3127 Development of an Improved
U Radio-Frequency-Filter System
5/47 for Model RDZ/RDZ-1 Receiving
Equipment. W. C. Whitmer,
E. L. Powell.
PB130101, Mi\$2.40, Ph\$3.30.
- R-3128 Preliminary Survey of Antenna
U Instrumentation.
5/47 R. P. Lett.
- R-3129 Demodulators for Modulated
U Repetitive Pulses.
6/47 J. P. Spalding, A. E. Hastings.
PB129162, Mi\$2.70, Ph\$4.80.
- E-3130 Steady-State Analysis of Aircraft
U d-c Generators.
6/47 E. S. Van Valkenburg.
PB129163, Mi\$2.40, Ph\$3.30.
- R-3132 Investigation of the Radio
U Frequency Hazard to Case
6/47 Ignition Primers of 5"/38, 6"/47
and 8"/55 fixed Ammunition.
E. R. Longman.

- R-3133 An Improved Conductance Measuring Circuit.
U
6/47 E. O. Weaver, W. A. McCool.
PB111527, Mi\$2.50, Ph\$5.25.
- M-3134 Some Effects of High Frequency Vibrations on Metals. A Survey of the Literature. E. J. Chapin.
U
6/47 PB108356, Mi\$1.75, Ph\$2.50.
- R-3135 Lark-Wasp Guided Missiles Seminar. A. S. Locke.
U
5/47 Appendix 1, A. C. Packard
Appendix 2, C. D. Perrine, Jr.
Appendix 3, H. L. Flowers,
J. T. Burke.
- N-3137 Performance of Infrared Optical Systems.
U
5/47 G. L. Harvey.
- R-3138 Sea Trials of the MTI Conversion Unit for SC-SK Series Search Radar. T. H. Chambers.
U
6/47
- R-3139 Upper Atmosphere Research Report III, Part II, compiled and edited by H. E. Newell, Jr. and J. W. Siry. (Series of reports by E. H. Krause, C. H. Smith, Jr., M. W. Rosen, J. M. Bridger, M. Becker, T. E. Bordeau, T. R. Burnight, and W. F. Fry).
U
4/47 PB129164, Mi\$3.00, Ph\$6.30.
- N-3140 Voltage Stabilization by Means of the Corona Discharge Between Coaxial Cylinders.
U
6/47 I. H. Blifford, R. G. Arnold,
H. Friedman.
PB109177, Mi\$2.00, Ph\$2.75.
- C-3141 Some Surface-Active Properties of the Linear Polyorganosiloxanes.
U
5/47 I. H. W. Fox, P. W. Taylor,
W. A. Zisman.
PB97939, Mi\$2.00, Ph\$3.75.
- R-3142 The Cathode-Ray Storage Tube.
U
5/47 H. W. Lance, I. C. Lantz,
L. P. Ventry.
- N-3143 Measurement of the Color Characteristics and Brightness of Fluorescent and Phosphorescent Material. L. J. Boardman,
U
6/47 L. H. Dawson, L. R. Furlong,
W. S. Plymale, Jr.
PB129166, Mi\$2.40, Ph\$3.30.
- R-3144 Lark-Wasp Guided Missile Seminar. A. S. Locke.
U
8/47 Appendix 1, J. P. Spalding
Appendix 2, C. L. Key, Jr.,
C. H. Dodge
Appendix 3, F. M. Ralston.
- E-3145 Cable Thermo Curves. (Second printing 1948 with revised graphs).
U
7/47 W. H. Askew.
- 3146 Annual Report for the Year Ending 30 June 1947.
U
6/47
- C-3147 Hydrides and Borohydrides of Light Elements.
U
8/47 H. I. Schlesinger, A. E. Finholt.
PB126477, Mi\$4.50, Ph\$12.30.
- M-3148 The Use of Hyperatmospheric Pressures in the Feeding of Steel Castings. E. T. Myskowski.
U
7/47
- R-3149 Evaluation of the M-6700 Radar D. F. Antenna.
U
8/47 K. O. Hornberg.
- R-3150 Cycle Matching for Standard Loran. J. W. Brogden,
U
7/47 H. D. Cabbage, B. H. Weston.
- S-3151 Shock and Vibration Bulletin, No. 4. Survey of Shock Measurements, by F. F. Vane. Air-Blast Research at the Taylor Model Basin, by H. L. Rich; Observations of Damage from Underwater Explosions, by C. T. Johnson; Shock Damage with a Single Degree of Freedom, by J. W. Wrench, Jr.; Suggestions for Future Research, by R. T. McGoldrick; Contact and Near-Contact Explosions on Models, by C. H. Gerlach, A Review on the Report on the CAMERON Trials, by J. P. Walsh; Evaluation of Inertia Operated Devices, by J. H. Armstrong.
- C-3152 Quarterly Progress Report on the Measurement of the Physical and Chemical Properties of the Sodium Potassium Alloy. IV. C. T. Ewing, R. S. Hartman,
U
7/47 H. B. Atkinson, Jr.
- S-3153 Vibration Isolator for Aircraft Voltage Regulator.
U
7/47 C. J. Bastien.
PB129169, Mi\$2.40, Ph\$3.30.
- R-3154 Amplitude and Frequency Modulation for Facsimile Transmission and Other Applications. A. D. Watt.
U
9/47 PB125993, Mi\$3.60, Ph\$9.30
- R-3155 Characteristics of Cavity Resonators made of Fused Quartz.
U
8/47 H. L. Wuerffel, L. Schlesinger.
- R-3156 Reduction of Cross Modulation at DAG Stations by the Use of Antenna Coupling Transformers. M. L. Musselman,
U
8/46 R. L. Haskins.
PB129170, Mi\$3.00, Ph\$6.30.
- R-3157 Spectral Emissivity and Electron Emission Constants of Thorium Cathodes Formed by Cataphoresis. T. E. Hanley.
U
8/47 PB129171, Mi\$2.40, Ph\$3.30.
- R-3158 Investigation of Oscillator Circuits for Use with CR-9/U Over-Mode Crystal Units. B. C. Hill,
U
11/47 S. L. Kenyon.
PB129172, Mi\$3.00, Ph\$6.30.
- M-3159 The Temperature Coefficient of Young's Modulus of Masumoto's Low Expansion Alloy.
U
8/47 H. E. Stauss, D. S. Billington,
R. N. Dean, F. E. Martin.
PB107848, Mi\$1.75, Ph\$2.50.
- E-3160 Moisture Investigation of Cable. W. H. Kohlmann.
U
8 47
- R-3161 Electrostatic Deflection Systems for Plan Position Indicators.
U
8/47 E. V. Phillips.
PB129173, Mi\$2.40, Ph\$3.30.
- R-3162 Some Theoretical Considerations in the Design of Directional-Null-Type Antennas.
U
8/47 C. V. Parker.
PB129174, Mi\$3.00, Ph\$6.30.
- C-3163 Improvement of Antifouling Paint for Naval Aircraft Hull-Bottoms.
U
8/47 J. E. Cowling.
- R-3164 Preliminary Study of an Airborne Command System.
U
8/47 J. J. MacGregor, S. Riccobono,
W. W. Balwanz, G. F. Wall,
K. L. Huntley,
J. F. Plunkert.
- R-3165 Interim report on Development of Model SPS-3 (XDK) Shipborne Hemispheric-Search Radar.
U
8/47 L. V. Blake.
- R-3166 Single Tube Harmonic Generator Design.
U
9/47 H. H. Grimm.
PB129175, Mi\$2.40, Ph\$3.30.
- R-3167 Transfer Characteristics of a Bridged Parallel-T Network.
U
8/47 C. F. White.
PB106744, Mi\$2.75, Ph\$6.50.
- R-3168 Second Interim Report on a System for High Speed Communications by Television.
U
5/47 H. Gordon,
L. L. George
- E-3169 Variable Speed Constant Frequency Alternator.
U
9/47 E. L. Brancato.
PB130103, Mi\$2.40, Ph\$3.30.

- R-3171 Upper Atmosphere Research
U
10/47 Report No. IV, compiled and
edited by H. E. Newell, Jr.
and J. W. Siry. (Series of
Reports by G. J. Perlow,
J. D. Shipman, Jr., S. E. Gohian,
E. H. Krause, B. Howland,
C. A. Schroeder, F. S. Johnson,
J. J. Oberly, J. D. Purcell,
R. Tousey, M. L. Greenough,
C. C. Rockwood, T. R. Burnight,
K. F. Clark, Jr., J. C. Seddon,
G. Van Sickle, W. F. Fry,
C. W. Miller, N. Best,
R. Havens, H. Lagow,
C. B. Cunningham,
C. P. Smith, T. A. Bergstrahl,
H. E. Newell, Jr., S. W. Lichtman,
J. T. Mengel, and
C. H. Smith, Jr.).
PB106999, Mi\$6.50, Ph\$22.50.
- C-3172 Filter Paper Studies. I., Effect of
U
9/47 Replacing Esparto with Yucca
Fiber.
H. W. Knudson.
- R-3174 Development of a Zero-Drag
U
9/47 VHF Communications Antenna
for Aircraft.
E. N. Keith.
- E-3176 Sliding Contacts at High Altitudes.
U
9/47 Experimental System for Carbon
Brush Investigations.
E. F. Harmon.
PB129176, Mi\$2.40, Ph\$3.30.
- R-3177 The Relay Interpolator: a
U
9/47 Description of its Operation.
B. L. Sarahan.
PB130104, Mi\$4.80, Ph\$13.80.
- R-3179 Development of Antennas for
U
9/47 Use with Link Verification
System.
A. M. Winzemer.
PB129177, Mi\$2.40, Ph\$3.30.
- C-3180 Preparation of Organophosphorus
U
9/47 Compounds. E. J. Kohn,
U. E. Hanninen,
R. B. Fox.
PB98619, Mi\$1.75, Ph\$2.50.
- S-3181 Shock and Vibration Bulletin,
U
9/47 No. 5. Accelerations
Experienced by Projectile
Components, D. E. Marlowe;
Impact and Penetration of
Water, J. H. Wayland; Physical
Aspects of Countermining,
R. E. Hightower; Accelerations
Produced by Control of
Guided Missiles, D. T. Sigley.
Review of Metallurgical Factors
Involved in the Failure of
Structures or Components by
Shock or Vibration, I. G. Slater.
Calibration Methods for
Vibration Pickups,
S. P. Thompson.
- R-3182 Direction Finder Bandwidth
U
10/47 Requirements. S. F. George.
PB129178, Mi\$3.30, Ph\$7.80.
- M-3183 The Determination of Some
U
9/47 Common Alloying Elements
in Aluminum and Its Alloys.
W. Zimmerman, III.
PB129179, Mi\$2.40, Ph\$3.30.
- R-3185 The AN/ARC-19 (XN-1)
U
10 47 Airborne Multichannel Com-
munications System: Its
Development, Evaluation
and a Proposal for an
Improved System.
J. E. McGeogh, J. H. Dunn,
G. K. Jensen.
- S-3186 Characteristics of the 3 ft-lb
U
10/47 Vibration Machine.
R. W. Conrad.
PB111047, Mi\$2.00, Ph\$2.75.
- S-3187 Survey of Inorganic Piezoelectric
U
10/47 Materials. P. H. Egli.
PB130105, Mi\$2.40, Ph\$3.30.
- R-3188 Lark-Wasp Guided Missile
U
7/47 Seminar. A. S. Locke.
Appendix 1, C. E. Corum
Appendix 2, C. L. Key, Jr.
and C. H. Dodge.
Appendix 3, P. Waterman.
- N-3189 Low Voltage Self-Quenching
U
10/47 Geiger Counters.
S. H. Liebson, H. Friedman.
PB107876, Mi\$1.25, Ph\$1.25.
- R-3190 Investigation and Study of the
U
10/47 AM Reduction and Downward
AM Characteristics of Three
Forms of Ratio-Type FM
Detector. D. R. Maxson.
- C-3191 The Thermal Evaluation of
U
10/47 Formvar Resin, II.
T. D. Callinan.
PB10301, Mi\$1.75, Ph\$2.50.
- C-3192 Investigation of Silicone Polymer
U
10/47 Fluids. VIII., High Temperature
Performance of Silicone Fluids
in Journal Bearings.
J. E. Brophy, J. Larson,
R. O. Miltz.
PB107842, Mi\$1.75, Ph\$2.50.
- R-3193 Calculation of Doubly Curved
U
11. 47 Reflectors for Shaped Beams.
A. S. Dunbar.
PB129180, Mi\$2.70, Ph\$4.80.
- R-3194 Development and Performance
U
11/47 of Ratio-Type FM Detector as
Applied to the Model RDO
Receiving Equipment.
D. R. Maxson.
PB129181, Mi\$2.70, Ph\$4.80.
- S-3195 Development of Instrumentation
U
11/47 Techniques for Measuring
Periscope Vibration.
A. N. Ciaffardini.
PB117011, Mi\$2.00, Ph\$2.75.
- R-3196 Missile Guidance by Jet Impulse.
U
11/47 D. Harkin.
- R-3197 Propagation of Electromagnetic
U
11/47 Waves Through Propellant
Gases. F. M. Gager.
- R-3198 Development of a Highly Stable
U
11 47 Crystal Controlled Oscillator-
Exciter. E. R. Longman,
J. Awramik, Jr.
- P-3199 Concluding Report of the Joint
U
11 47 Army-Navy Atmospheric
Electricity Research Project
at Minneapolis, Minnesota.
G. D. Kinzer.
PB97412, Mi\$1.75, Ph\$2.50.
- S-3200 Shock and Vibration Bulletin,
U
11/47 No. 6. Vehicular Shock
and Vibration Instrumentation
and Measurements with Special
Consideration of Military
Vehicles, F. K. Priebe;
Some Tests on Military Land
Vehicles, C. D. Montgomery;
Transmission of Road Impulses
to Fire Control Instruments
Transported in Military Vehicles,
by H. M. Forkois; Damage to
Components and Equipment,
Effectiveness of Shock Mounts
N. Lee; Some German Methods
of Investigating Forces in
Vehicles, F. F. Vane; Empirical
Tests on Units of Portable
Electronic Equipments,
F. F. Koptonak; Vibration and Shocks
Encountered by Mines During
Shipment in a Railroad Freight
Car, R. H. Suesale; The Multi-
frequency Reed Gage, by Vibration
Section Staff, TMB; Introductory
Remarks on Shock Instrumentation,
I. Vigness.

Numerical Index

C-3201 - E-3237

- C-3201 Quarterly Progress Report on the
U Measurement of the Physical
12/47 and Chemical Properties of the
Sodium-Potassium Alloy, V.
C. T. Ewing, H. B. Atkinson, Jr.,
R. R. Miller.
PB116494, Mi\$3.25, Ph\$9.00.
- R-3202 Calculation of the Attenuation of
U Electric Field Strength.
12/47 H. J. Peake.
PB112013, Mi\$2.50, Ph\$6.25
- R-3203 Lark Telemetering Antennas.
U E. N. Keith,
11/47 D. H. Russell.
- R-3204 Direct Detection of Microwaves.
U B. A. Lengyel.
11/47 PB99169, Mi\$2.00, Ph\$2.75.
- R-3205 Microwave Q Measurements in
U Presence of Series Losses
5/48 L. Malter, G. R. Brewer.
PB111124, Mi\$2.00, Ph\$2.75.
- E-3206 Stability Specification for Voltage
U Regulators. J. W. Pobst.
4/48 PB111131, Mi\$2.00, Ph\$2.75.
- S-3207 A Determination of the Elastic
U Constants for Beta Quartz.
12/47 E. W. Kammer, T. E. Pardue.
PB111125, Mi\$2.00, Ph\$2.75.
- C-3208 Hydrides and Borohydrides of
U Light Elements. Progress Report
12/47 No. XXVIII. H. I. Schlesinger,
G. W. Schaeffer.
PB108776, Mi\$2.00, Ph\$3.75.
- R-3209 S-Band Propagation with Acid-
U Aniline Flame Barriers.
12/47 F. M. Gager, E. N. Zettle,
H. M. Bryant, F. E. Boyd.
- R-3210 Ultrahigh-Frequency Antenna
U Consideration for Radiation
12/47 Measurements. H. E. Dinger,
G. E. Leavitt.
PB111127, Mi\$2.25, Ph\$4.00.
- E-3211 Investigation of the Performance
U of Tungsten-Cobalt Plated Slip
12/47 Rings and Commutators.
B. M. Horton.
PB111129, Mi\$2.00, Ph\$2.75.
- N-3212 Eclipse Area and Eclipse Function
U Calculations. D. B. Beard.
1/48 PB108777, Mi\$1.75, Ph\$2.50.
- R-3214 Antenna Radiation Patterns of
U KUV-1 Missiles. G. Kaufman.
1/48 PB109750, Mi\$1.75, Ph\$2.50.
- R-3215 A Graphical Method for Computing
U Short Impedance Matching
1/48 Transformers. C. B. Barker.
PB129182, Mi\$2.40, Ph\$3.30.
- S-3216 Ultrasonic Measurement of Wall
U Thickness in Diesel Liners.
1/48 F. W. Struthers.
PB111136, Mi\$2.00, Ph\$2.75.
- R-3217 Omnidirectional Intercept Antenna
U for Submarines in the Frequency
1/48 Range 1000 to 4000 Mc.
W. E. Withrow.
- R-3218 Tests of 200 Megacycle Echo
U Boxes and Improvements in
1/48 Model OAA-2.
W. J. Brinks.
- R-3219 General Purpose Audio
U Amplifier.
1/48 R. P. Lett.
- R-3220 Radar Area Measurements of
U V-2 Rockets.
1/48 F. C. Macdonald.
- R-3221 Further Design and Development
U of Components for Simultaneous
1/48 Lobing Radar TAB.
H. L. Gerwin,
A. E. Hastings.
- R-3222 An Aid to the Calculation of
U Electric Field Strengths in
1/48 the Interference Region.
H. J. Peake.
PB129185, Mi\$7.00, Ph\$22.80.
- R-3223 Millimeter Wave Research. Com-
U ponents for Millimeter Wavelength
1/48 Range. H. Herman,
R. J. Coates,
PB111123, Mi\$2.00, Ph\$2.75.
- R-3224 Antenna for Radar Bomb Director
U Mark 5 (AN/APB-2).
1/48 A. S. Dunbar.
- C-3225 Filter Paper Studies. II, Effect
U of Replacing Esparto with
1/48 Wood-Pulp Fiber.
H. W. Knudson,
S. J. Pasternak.
- C-3226 Filter Paper Studies. III, Effect
U of pH and Added Electrolytes.
1/48 H. W. Knudson,
S. J. Pasternak.
- R-3227 The Laboratory Model of the
U Marine Corps Radar Mark 20
1/48 Model 2 for Mortar Location.
T. B. Jackson,
R. R. Crane.
- E-3228 Development of a Method of
U Obtaining a Uniform Abrasion
2/48 Test for Aircraft Electrical
Cable.
W. A. Ritchie.
PB129188, Mi\$2.40, Ph\$3.30.
- S-3229 Shock and Vibration Bulletin.
U No. 7. Effect of Shock and
1/48 Vibrations on Structures,
by H. Marcus; Vibration
Problems in Aircraft, by
J. E. Walsh; Theoretical and
Experimental Research on
Flutter in Aircraft, by L. P.
Clark; Photoviscous Flow
Channel; Dynamic Stresses
in Aircraft Structures, by
R. L. Bisplinghoff, G. Isakson
and T. H. Pian; the Measure-
ment of Mechanical Transients
Following Landing Impact
of a Model Airplane, by
W. Ramberg; Ejection of Pilots
from Aircraft, by S. R. C.
Nelson; The Measurement of
Forces Acting on Pilot During
Crash Landing, by
A. E. McPherson.
- R-3230 Comparison of AM and Narrow-
U Band FM UHF Communication
6/52 Systems, Final Summary
Report and Appendix A.
E. Toth, J. D. Wallace.
- R-3231 Comparison of AM and Narrow-
U Band FM UHF Communication
3/50 Systems. Appendix B.
Theoretical Considerations.
R. M. Maiden.
- R-3232 Comparison of AM and Narrow-
U Band FM UHF Communication
3/48 Systems. Appendix C. Design
and Performance Characteristics
of Equipment Employed.
W. E. W. Howe and
A. R. Rumble.
- R-3233 Comparison of AM and Narrow-
U Band FM UHF Communication
2/49 Systems. Appendix D.
Laboratory Studies and
Investigations.
H. R. Johannessen, W. E. W. Howe.
- R-3234 Comparison of AM and Narrow-
U Band FM UHF Communication
3/48 Systems. Appendix E.
Shipboard Studies and Investigations.
D. McClenon.
- R-3235 Comparison of AM and Narrow-
U Band FM UHF Communication
6/48 Systems. Appendix F. Airborne
Studies and Investigations.
F. J. Hollweck.
- R-3236 A Navy Shipboard Neptune Program.
U T. A. Bergstralh,
2/48 H. E. Newell, Jr.,
M. W. Rosen.
- E-3237 General Improvement of Control
U Element of Reverse-Current
2/48 Cutouts.
J. M. Marzolf.
PB111132, Mi\$2.00, Ph\$2.75.

R-3238 - R-3279

Naval Research Laboratory

- R-3238 Preliminary Report on Electro-magnetic Wave Propagation in a Composite Medium. W. S. Ament. PB129187, Mi\$2.40, Ph\$3.30.
- R-3239 Flight Tests of a Ground Speed Indicator over Measured Runs. C. L. Estes, E. F. McClain. 2/48
- R-3240 Some Characteristics of a Proposed Conical-Scan Radar Homing Equipment for the Skylark Missile. A. J. Stecca, M. G. Kaufman. U 9/47
- R-3241 Miniature S-Band Telemetry Transmitter for Guided Missiles. V. J. Guethlen, J. Stecca. PB129281, Mi\$2.40, Ph\$3.30. 2/48
- R-3242 Evaluation Report, AN/ARD-4, Serial No. 1, VHF Airborne Radio Direction Finder. A. G. Thompson. U 2/48
- C-3243 Quarterly Progress Report on the Measurement of the Physical and Chemical Properties of the Sodium-Potassium Alloy, VI. C. T. Ewing, E. C. King, R. C. Werner, R. A. Tidball. U 2/48
- R-3244 A Finite Difference Solution of Recurrent Networks. B. N. Navid. PB111133, Mi\$2.00, Ph\$2.75. 3/48
- R-3245 Characteristics of Directional-Null Antenna Patterns Produced by Multi-Element Arrays. C. V. Parker. PB107866, Mi\$2.00, Ph\$3.75. 3/48
- R-3246 The MTI Conversion Unit for SC-SK Series Radar. T. H. Chambers. U 3/48
- R-3247 PRR and PFM Systems of Project Hornet. J. T. Burke, F. E. Huggin, R. R. Zirm. U 3/48
- R-3248 Psychological Studies of Tracking Behavior. I., Rate and Time Characteristics of Simple Corrective Movements. L. V. Searle. PB129282, Mi\$2.40, Ph\$3.30. U 3/48
- R-3249 Psychological Studies of Tracking Behavior. II., A Study of the Acceleration Pattern of Quick Manual Corrective Responses. H. P. Birmingham, F. V. Taylor. PB129283, Mi\$2.40, Ph\$3.30. U 3/48
- R-3250 A Precision Range Delay Unit. A. M. King. U 3/48
- C-3251 The Catalytic Hydrogenation of Some Aryl-Substituted Aliphatic Acids. F. L. Schmehl, N. L. Smith. PB107843, Mi\$2.00, Ph\$2.75. U 3/48
- P-3252 Gas Pulsator - Pulse Jet. Fifth Partial Report. G. C. Milak. PB129284, Mi\$2.40, Ph\$3.30. U 3/48
- R-3253 Response of an Airframe to Sinusoidal Wing Flap Deflection. J. W. Titus. U 3/48
- M-3254 The Value of Pressure Tests and Radiographs of Gun Metal Castings. W. H. Baer. PB109748, Mi\$2.00, Ph\$3.75. U 3/47
- C-3255 The Slicing Method for Making Harp. H. A. Tanner, R. L. Stetson. U 3/48
- N-3256 Comparison of Colorimetric Methods, Determination of Color Characteristics of Some Corning Filters and Fluorescent Cloths. L. R. Furlong. PB109735, Mi\$2.00, Ph\$3.75. U 3/48
- N-3257 The Brightness and Polarization of the Daylight Sky. E. O. Hulburt. PB109569, Mi\$2.00, Ph\$3.75. U 2/48
- R-3258 The Series Peaking Transformer, A Current Zero Trigger Source. L. D. Breetz. PB109749, Mi\$1.75, Ph\$2.50. U 3/48
- R-3259 Evaluation of Model X-DBH Radio Direction Finder. J. J. Conlon. PB109573, Mi\$2.25, Ph\$5.00. U 3/48
- N-3260 A Review of the Characteristics of Lead Photoconducting Sulfide Cells. J. E. Perry, E. H. Ockert, Jr., J. A. Sanderson. PB130106, Mi\$2.40, Ph\$3.30. U 7/48
- R-3261 Incidental Flame Modulation of S-Band Continuous Wave Radiation. F. M. Gager, H. H. Grimm, R. C. Peck, G. D. Morehouse. U 3/48
- C-3262 First Report on Investigation of the Plate Materials of the Lead Acid Cell, Compound Formation Between Lead Monoxide and Lead Sulfate. J. J. Lander. PB109747, Mi\$2.00, Ph\$3.75. U 3/48
- N-3263 Survey of the Brightness of the Night Sky. E. O. Hulburt. PB109566, Mi\$1.75, Ph\$2.50. U 4/48
- N-3264 A Multi-Range Electronic Apparatus for Measuring and Recording Phosphorescent Decay. W. S. Plymale, Jr. PB109574, Mi\$1.75, Ph\$2.50. U 3/48
- N-3265 A Study of Multiple Compton Scattering. W. R. Faust, C. Fiddler, M. H. Johnson. PB111121, Mi\$2.00, Ph\$2.75. U 3/48
- S-3266 Audible P-80 Jet Aircraft Noise. W. Wathen-Dunn. PB109567, Mi\$2.00, Ph\$3.00. U 3/48
- C-3267 The Second Report on Oleophobic Monolayers, Temperature Effects and Energies of Absorption. W. C. Bigelow, E. Glass, W. A. Zisman. PB111126, Mi\$2.50, Ph\$5.25. U 3/48
- R-3268 Antenna Feeds for Tracking Radars. A. E. Hastings. U 3/48
- R-3269 An Investigation and Analysis of the Radiation Spectrum of the Model TDP-1 Loran Transmitter. A. W. Coven, J. W. Brogden. PB129285, Mi\$2.40, Ph\$3.30. U 3/48
- 3270 Scientific Program of the Naval Research Laboratory. U 7/48
- R-3271 An Automatic Lightweight Homing System. G. P. Ohman. U 3/48
- R-3272 A Network Performance Analyzer. C. F. White, L. A. Marzetta. PB129286, Mi\$1.80, Ph\$1.80. U 3/48
- C-3273 Low Temperature Crankcase Lubricants. C. Lamb, C. M. Murphy. PB112521, Mi\$1.75, Ph\$2.50. U 3/48
- C-3274 Infrared Spectra of Pure Hydrocarbons. D. C. Smith. PB111194, Mi\$4.50, Ph\$12.75. U 5/48
- C-3275 The Loss Factor of Formvar. T. D. Callinan. PB103030, Mi\$2.00, Ph\$3.75. U 4/48
- S-3276 Shock and Vibration Bulletin No. 8. Properties and Uses of Resistance Strain Gages, by D. E. Weiss; Measuring Shock with High Speed Motion Pictures, by J. T. Muller; A Brief Survey of the British-Type Velocity Meters, by G. Chertock; MB Velocity Meters, by K. Unholtz; Multi-Frequency Reed Gages - Types 1 and 2, by B. J. W. Grier; Peak-Reading Accelerometers, by R. E. Blake; Piezoelectric Accelerometers, by J. L. Jones; Strain Gage and Carrier-Type Accelerometers, by E. W. Kammer. U 3/48
- C-3277 The Anodic Behavior of Aluminum and Zinc Alloys in Sea Water. T. P. May, S. Schuldiner, J. Burbank. PB108571, Mi\$2.75, Ph\$6.50. U 4/48
- R-3278 IFF System Deafening with a Mercury Delay Line. J. R. Parsons. U 4/48

Numerical Index

R-3280 - R-3322

- R-3280 Proposed Constant True Bearing Homing System for Skylark. U
4/48 P. Waterman, C. L. Key, Jr., C. H. Dodge.
- R-3281 Theory and Design of Resonant Transformer-Coupled Loop-Antenna Input Systems for VLF Reception. S. V. Fratianni. PB129287, Mi\$3.00, Ph\$6.30.
- R-3283 An X-Band Frequency Measuring System. I. K. Munson. U
5/48 PB109568, Mi\$1.75, Ph\$2.50.
- C-3284 Investigation of the Hydrolysis of Halogenated Hydrocarbon Compounds. K. L. Temple, J. K. Wolfe. U
5/48 PB107844, Mi\$2.00, Ph\$2.75.
- C-3285 Infrared Spectra of Some Natural Elastomers. R. A. Saunders, D. C. Smith. U
5/48 PB129288, Mi\$2.70, Ph\$4.80.
- C-3286 Evaluation of Adhesion of Organic Coatings to Metal Surfaces by Ultrasonic Vibrations. S. Moses. U
5/48 PB99969, Mi\$2.50, Ph\$4.00.
- C-3287 Quarterly Progress Report on the Measurements of the Physical and Chemical Properties of the Sodium-Potassium Alloy, VII. C. T. Ewing, H. B. Atkinson, Jr., T. K. Rice. U
5/48 PB113080, Mi\$4.50, Ph\$13.75.
- R-3288 Analysis of Low Frequency Pulses. J. W. Brogden, U
3/48 H. D. Cabbage, B. H. Weston.
- C-3289 Fungus Inhibitive Properties of Organic Compounds. I., Hydrocarbons and Their Halides. U
5/48 J. M. Leonard, W. E. Weaver. PB106531, Mi\$2.00, Ph\$2.75.
- S-3290 Shock and Vibration Bulletin. No. 9. U
4/48 Admiralty Field Instrumentation for Shock and Vibration Investigation, by J. Pausey; Similarities and Differences in Instrumentation for Ordnance Field Tests, by D. E. Marlowe; Contrasting Procedures for Aircraft, by C. G. Weeber; Brief Resume of Recent British Shock Trials in Ships, by J. E. Shaw; Contrasting Land Vehicle Procedures, by C. D. Montgomery.
- R-3291 Analysis of Some Carrier All-Weather Flying Problems. U
6/48 A. Brodzinsky, M. S. Friedland, H. W. Chitty.
- E-3292 Time Delay Relays for Aircraft Applications. W. M. Tucker. U
6/48 PB109751, Mi\$1.75, Ph\$2.50.
- R-3293 The Fresnel Zone Plate Antenna. U
6/48 I. Maddaus, Jr. PB109748, Mi\$2.00, Ph\$3.75.
- R-3294 Upper Atmosphere Research with V-2 Rockets. H. E. Newell, Jr. U
6/48 PB107000, Mi\$2.00, Ph\$3.75.
- E-3295 Development of a Shock Resistant Indicator Light. J. D. Haynsworth. U
6/48 PB129289, Mi\$1.80, Ph\$1.80.
- M-3296 Stress Relief of Gray Cast Iron. U
6/48 J. H. Schaum. PB109572, Mi\$2.00, Ph\$3.75.
- R-3297 An Electronic Error Integrator. U
6/48 H. P. Birmingham. PB111122, Mi\$2.00, Ph\$2.75.
- R-3298 A Device for Use in Studying the Pattern of Hand Movements. U
6/48 H. P. Birmingham. PB111130, Mi\$2.00, Ph\$2.75.
- C-3299 Filter Paper Studies, IV., Effect of Replacing Esparto with Viscose Rayon Fiber. H. W. Knudson, S. J. Pasternak. U
6/48
- C-3300 Some Aldehydeamine Accelerators. U
3/49 J. C. Montermoso. PB111156, Mi\$2.25, Ph\$4.00.
- R-3301 A PPI Parameter Study System. U
6/48 T. B. Jackson.
- F-3302 The Equivalent Static Acceleration of Shock Motions. U
6/48 J. P. Walsh, R. E. Blake. PB112522, Mi\$1.75, Ph\$2.50.
- R-3303 Some Servo System Sinusoidal Studies. C. F. White. U
6/48 PB129290, Mi\$1.80, Ph\$1.80.
- M-3304 Tensile and Transverse Testing of Gray Cast Iron. J. H. Schaum. U
6/48 PB111141, Mi\$2.25, Ph\$4.00.
- R-3305 Development of Electron Tube for Switching Radio Frequency Power. W. H. Flarity. U
6/48
- R-3306 The Electron Wave Tube, a Novel Method of Amplification and Generation of Microwave Energy. A. V. Haefl. U
6/48 PB129291, Mi\$2.40, Ph\$3.30.
- R-3307 A Spherical Balloon with Internal Corner Reflector for Radar. U
6/48 S. K. Brown, Jr.
- R-3309 Simulation Methods Applied to Single-Tube Harmonic Generator Design. H. H. Grimm. U
7/48 PB111159, Mi\$2.00, Ph\$2.75.
- R-3310 Investigation of an Improved Conductance Measuring Circuit at 100 Megacycles Per Second. W. A. McCool. U
7/48 PB113042, Mi\$4.50, Ph\$13.75.
- C-3311 Boron Hydrides, a Study of Chemical and Physical Properties. U
6/48 S. H. Smith, Jr., R. M. Newhall.
- R-3312 Optics of Microwave Directive Systems for Wide-Angle Scanning. U
9/48 A. S. Dunbar. PB111138, Mi\$2.75, Ph\$6.50.
- R-3313 Interim Report on the AN/SPB-2 (XDQ) Radar System. U
7/48 A. A. Varela.
- R-3314 Obtaining the Voltage-Standing-Wave Ratio on Transmission Lines Independently of the Detector Characteristics. A. M. Winzemer. U
7/48 PB111139, Mi\$1.75, Ph\$2.50.
- F-3315 Description and Use of Electron Micrometer Tube, Type C796C. U
7/48 T. B. Fryer. PB113038, Mi\$1.75, Ph\$2.50.
- S-3316 Transformation of Crystallographic, Elastic and Piezoelectric Coefficients. B. J. Faraday, B. D. Simmons. U
7/48 PB129292, Mi\$2.70, Ph\$4.80.
- R-3317 Video Mapping for the Data Relay Navigation System. U
7/48 A. B. Winick, I. M. Saffitz.
- R-3318 Guided Missile Seminar, September 1947. A. S. Locke, U
7/48 Appendix 1. Discussion of FM-CW Oscillator for Wasp Missile Control, by J. P. Spalding. Appendix 2. Discussion of the Effect of Random Noise on Missile Guidance, by W. S. Ament. Appendix 3. Determination of Proper Bandpass for Automatic Correction of Range for Lark, by C. E. Corum and C. L. Key, Jr.
- N-3319 A Photoelectric Pyrometer for the Measurement of Luminous Flame Temperatures. U
7/48 J. A. Carcio, D. V. Estes. PB107877, Mi\$1.75, Ph\$2.50.
- R-3320 Study of Moduplex Characteristics. U
7/48 A. D. Watt. PB110603, Mi\$1.75, Ph\$2.50.
- R-3321 Consideration of Equal Energy Pattern Over Curved Earth. U
7/48 A. S. Dunbar. PB112000, Mi\$2.00, Ph\$3.75.
- R-3322 Development of the Radar Beacon AN/DPN-3(KB-1) for Use with the Lark Missile. U
7/48 C. R. Abern.

C-3323 - F-3363

Naval Research Laboratory

- C-3323 The Chemistry of Organo-
U Phosphorus Compounds.
7/48 R. B. Fox, L. B. Lockhart.
PB101804, Mi\$4.50, Ph\$13.75.
- R-3324 Development of a VHF Frequency
U Converter Unit for the AN/MKR-4
6/48 Telemeter Receiving Equipment.
P. T. Stine,
K. A. Morgan.
PB129293, Mi\$3.00, Ph\$6.30.
- C-3326 Chemical Studies on Fungicides.
U III. Synthesis of α -Bromoamides.
7/48 W. E. Weaver, W. M. Whaley.
PB100905, Mi\$1.75, Ph\$2.50.
- N-3327 Further Investigations of the
U Radiation from Rocket Motor
7/48 Flames. J. A. Curcio,
J. A. Sanderson.
- F-3328 Characteristics of the 250 ft.-lb
U Shock Machine.
7/48 R. W. Conrad.
PB111045, Mi\$2.25, Ph\$4.00.
- R-3329 Analysis of Antenna Wavefronts.
U K. S. Kelleher.
7/48 PB113039, Mi\$2.00, Ph\$3.75.
- C-3330 Quarterly Progress Report
U on the Development of the
8/48 Physical and Chemical Prop-
erties of the Sodium-Potassium
Alloy. VIII. C. T. Ewing,
R. E. Seebold, J. A. Grand,
H. B. Atkinson, Jr.
PB113040, Mi\$1.75, Ph\$2.50.
- R-3331 Kingfisher "E" Command
U Control System.
8/48 J. T. Burke.
- F-3332 Vibration Characteristics of
U Submarine Periscopes.
8/48 A. N. Ciaffardini,
C. B. Cunningham,
E. E. Bissell, Jr.
- P-3333 Upper Atmosphere Research
U Report. VI. A Detector for the
8/48 Dobson Ozone Spectrophotometer.
H. L. Clark.
PB112420, Mi\$1.75, Ph\$2.50.
- R-3334 Antenna Feeds for Tracking
U Radars, II.
8/48 A. E. Hastings.
- R-3335 A Target Simulator Monoscope.
U S. T. Smith.
8/48
- R-3336 Panoramic Receiver Thresholds.
U H. M. Beck, W. R. Faust,
8/48 H. K. Weidemann.
PB129294, Mi\$2.40, Ph\$3.30.
- F-3337 Reciprocity Calibration of
U Primary Vibration Standards.
8/48 S. P. Thompson.
PB109571, Mi\$1.25, Ph\$2.50.
- P-3339 Airborne Dual-Channel Radiation
U Detection System. F. M. Gager,
8/48 G. K. Jensen, E. N. Zettle.
PB129295, Mi\$2.70, Ph\$4.80.
- R-3340 The Digital Converter.
U D. H. Gridley.
8/48
- R-3341 Compact Simultaneous-Lobing
U Circuits. E. Quigley, H. J. Riblet,
11/48 T. S. Saad.
- R-3342 Automatic Aircraft Intercept
U Control System Study.
8/48 S. Riccobono.
- M-3343 The Effect of Titanium and
U Vanadium on the Mechanical
11/48 Properties and Weldability of
Experimental Low-Alloy High-
Tensile Steel. G. G. Luther,
C. E. Hartbower,
D. B. Roach.
PB111135, Mi\$2.50, Ph\$5.25.
- H-3345 Interim Report on Project Scalar,
U Phase I (Balloon-Borne Counters).
8/48 R. J. Adams, N. R. Best,
T. D. Hancosome, J. T. Mengel,
G. J. Perlow, J. D. Shipman,
R. C. Waddell.
Appendix (A)
Appendix (B)
Appendix (C) Instruction Manual.
- H-3347 Final Report on Project Scalar,
U Phase IV (Airborne Counters).
10/48 F. M. Gager, E. Zettle,
G. K. Jensen, M. H. Johnson.
Appendix I. JD-1 Flights.
Appendix II. B-29 Flights.
- H-3348 Final Report on Project Scalar,
U Phases II and III. Ground
10/48 Counters and Filters.
H. Friedman, I. H. Blifford.
Appendix A. Tabulation of
Equipments and Location.
Appendix B. Manual for Anti-
Coincidence Discriminator.
Appendix C. Manual for RFL
Ground Counter.
Appendix D. Manual for TR Ground
Counter.
- R-3349 Improvement of Interference
U Characteristics of the Model
8/48 TDZ Transmitter.
R. S. Werner.
- R-3350 Addition Formulas for Spherical
U Wave Functions. W. S. Ament.
9/48 PB111140, Mi\$2.00, Ph\$2.75.
- R-3354 Experimentally Determined
U Characteristics of Cylindrical
9/48 Sleeve Antennas.
A. W. Walters, L. C. Huffman.
PB129296, Mi\$3.90, Ph\$10.80.
- M-3355 Gating Systems for Metal
U Casting. W. H. Johnson,
9/48 W. O. Baker.
PB97403, Mi\$1.75, Ph\$2.50.
- R-3356 Factors Influencing the Design of
U Virtual PPI Reflectoscopes.
9/48 C. A. Smith.
PB130102, Mi\$2.70, Ph\$4.80.
- R-3357 The Radiation Fields of Helical
U Antennas. A. E. Marston.
9/48 PB111137, Mi\$2.00, Ph\$2.75.
- R-3358 Upper Atmosphere Research
U Report. V., compiled and edited
6/48 by H. E. Newell, Jr.,
and J. W. Stry.
PB107001, Mi\$4.50, Ph\$13.75.
- R-3359 Ferromagnetism at Very High
U Frequencies, Method of Measurement
9/48 and Process of Magnetization.
M. H. Johnson, G. T. Rado.
PB98535, Mi\$2.25, Ph\$5.00.
- M-3360 Insulation of Risers for Ferrous
U Castings. J. R. Power.
9/48 PB111071, Mi\$2.00, Ph\$2.75.
- R-3361 An F-M Test Set for Microwave
U Oscillators.
9/48 E. F. McClain, R. C. Giles.
- P-3362 A Lumped-Constant Electrical
U Analog of a Beam Vibrating in
10/48 Flexure. H. M. Trent,
E. S. Boffer.
PB129297, Mi\$2.40, Ph\$3.30.
- F-3363 Electrical Resistance Changes in
U Fine Wires During Plastic and
10/48 Elastic Elongation.
E. W. Kammer,
T. E. Pardue.
PB113036, Mi\$2.00, Ph\$3.75.

- C-3364 Water-Displacing Fluids and
U Their Application to Reconditioning and Protecting Equipment. H. R. Baker, W. A. Zisman.
10/48 PB98960, Mi\$2.75, Ph\$6.50.
- E-3365 Development of Fire Alarm
U Thermostat other than Mercury-In-Glass.
10/48 R. Gareau.
PB130107, Mi\$2.40, Ph\$3.30.
- R-3366 An Improved Crystal-Controlled
U Preselctor and I-F Amplifier for 225-400 Mc Reception.
10/48 R. P. Smith.
PB129298, Mi\$3.60, Ph\$9.30.
- R-3367 Electrostatic Deflection Systems
U for Plan Position Indicators. II.
10/48 C. B. Dobbie.
PB129300, Mi\$2.40, Ph\$3.30.
- R-3368 A Study of Computers and Radar
U for Aircraft Interception Control.
10/48 W. S. Alderson, P. A. Guarino, A. A. Varela.
- C-3369 The Development of Extreme
U Temperature Lubricating Greases from Silicones and Silicone-Diester Mixtures.
10/48 R. L. Merker, W. A. Zisman.
PB103176, Mi\$2.00, Ph\$2.75.
- P-3370 The Measurement of Air Temperature
U in Flight.
10/48 J. B. Peterson, J. E. Dinger.
PB129299, Mi\$2.40, Ph\$3.30.
- F-3371 Theoretical Aspects of the Reciprocity Calibration of Electro-mechanical Transducers.
10/48 S. P. Thompson.
PB109470, Mi\$1.75, Ph\$2.50.
- R-3372 Multiple Pulse Generator.
U
10/48 J. P. Sheridan.
PB112961, Mi\$2.00, Ph\$3.75.
- R-3373 A Cathode-Ray Tuning Monitor
U for Frequency-Shift Reception
10/48 W. C. Whitmer.
PB113033, Mi\$1.75, Ph\$2.50.
- R-3374 Notes on Precise Radio-Frequency
U Conductance Measurement by Resonant Circuit Techniques.
10/48 E. O. Weaver.
PB98815, Mi\$1.75, Ph\$2.50.
- R-3375 Amplitude Limiters. E. Toth.
U
10/48 PB129301, Mi\$2.70, Ph\$4.80.
- N-3376 The Transmission of Infrared
U Radiation from Flames by Co.
10/48 J. A. Curcio, D. V. Estes.
- F-3377 Shock and Vibration Bulletin No.
U 10. (The Eleventh Symposium).
10/48 (A Series of Articles by W. P. Roop, W. H. Hoppmann, II; H. M. Trent, L. W. Ball, K. W. Johnson, J. F. Frissel, L. A. Lofgren, and C. O. Carothers.)
- H-3378 Recovery and Identification of
U Atomic Bomb Fission Products Scavenged from the Atmosphere by Rainfall Following an Air Burst (A Description of Fission Product Activities Derived from Material Collected over a Period of Six Months after the Eniwetok Tests, at Distanced up to 9,000 Miles from the Source) (Not Available). P. King, L. Lockhart, H. Friedman, I. H. Blifford.
- R-3379 Average Pulse Relationships in
U High Pulse Density Systems.
11/48 G. P. Ohman.
PB115037, Mi\$2.75, Ph\$7.50.
- C-3380 The Oxidation Characteristics
U of Lubricating Fluids. I.
11/48 Oxidation Apparatus and Results on Some Typical Hydrocarbons. C. M. Murphy, Jr., H. Ravner.
PB111011, Mi\$2.25, Ph\$4.00.
- F-3381 Resistance of Cast Aluminum
U Alloys to Mechanical Shock - First Partial Report.
11/48 B. Goldberg.
PB113036, Mi\$2.00, Ph\$3.75.
- C-3382 Infrared Polarization Spectra
U and Structure of Hevea and Gutta Elastomers. R. A. Saunders, D. C. Smith.
11/48 PB113034, Mi\$1.75, Ph\$2.50.
- C-3383 Quarterly Progress Report on
U the Measurement of the Physical and Chemical Properties of the Sodium-Potassium Alloys.
10/48 IX. J. A. Grand, R. E. Seebold, C. T. Ewing.
PB112970, Mi\$1.25, Ph\$1.25.
- H-3385 The Separation of Hafnium and
U Zirconium by Liquid Thermal Diffusion. J. I. Hoover, M. Tetanbaum, H. S. Dryer.
- E-3387 A Protective Circuit for Aircraft
U D-C Generator Systems.
11/48 M. Trbovich.
PB129302, Mi\$2.70, Ph\$4.80.
- R-3388 An Investigation of Four Balloon-
U Carried Radar Reflectors.
11/48 S. K. Brown, Jr.
- M-3389 Final Report on Segregation in
U Small Steel Castings.
11/48 H. F. Bishop.
PB109287, Mi\$2.25, Ph\$5.00.
- M-3390 Some Observations on Under-
U bead Cracking in Welding of High-Tensile Low-Alloy Steel.
3/49 J. A. Runebolt, J. O. Mack.
PB111155, Mi\$2.50, Ph\$5.25.
- R-3391 NRL Modulator-Keyer.
U
12/48 C. W. Swoops, R. B. Wagner.
- S-3392 The Microthermal Structure of
U the Ocean Near Key West, Florida. I., Description.
12/48 R. J. Urlick, C. W. Searfoss.
PB111134, Mi\$2.25, Ph\$4.00.
- C-3393 Anticorrosive Coatings for
U Magnesium. III.
12/48 H. J. E. Segrave.
PB110804, Mi\$2.25, Ph\$5.00.
- C-3394 Filter Paper Studies, V.,
U Effect of Viscose Fiber Processing. H. W. Knudson.
12/48
- R-3395 AN/APA-64 Pulse Analyzer.
U
12/48 G. D. Morehouse.
- C-3396 Viscosities and Densities of
U Lubricating Fluids from -40 to 700°F. C. M. Murphy, J. B. Romans, W. A. Zisman.
12/48 PB112134, Mi\$2.25, Ph\$5.00.
- C-3397 Third Report on the Thermal
U Evaluation of Formvar Resin.
12/48 T. D. Callinan.
PB100862, Mi\$2.25, Ph\$4.00.
- P-3398 Exploratory Investigations of the
U Properties of Synthetic Rutile Single Crystals. S. Zerfoss, R. G. Stokes.
12/48 PB111092, Mi\$1.50, Ph\$1.50.
- R-3399 The Resonant Frequency of a
U Cavity-Type Filter as a Function of the Size of the Coupling Iris. W. W. Balwanz.
4/49 PB101869, Mi\$2.50, Ph\$5.25.
- 3401 The Study of Soap Micelles in
U Nonaqueous Systems by the Use of Fluorescent Dyes.
1/49 L. S. Arkin, C. R. Singleterry.
PB97404, Mi\$1.75, Ph\$2.50.

- 3402 A Discriminator for Pulse Widths
U and Pulse-Repetition Frequencies.
1/49 W. H. Paulsen.
- 3403 Fungus Inhibitive Properties of
U Organic Compounds. Part II -
3/49 Aliphatic Alcohols, Acids, and
Esters. J. M. Leonard,
W. E. Weaver.
PBI05296, Mi\$2.00, Ph\$2.75.
- 3404 Full Scale Shock Tests - USS
U Niagara, APA87 - Part I -
1/49 Techniques and Instrumentation.
C. B. Cunningham.
- 3405 Pilot Plant Preparation of Diborane.
U H. W. Carhart, R. H. Blizzard,
1/49 J. E. Johnson, J. A. Krynitaky,
S. H. Smith, Jr.
PB97405, Mi\$1.25, Ph\$1.25.
- 3406 An Electronic Method for Approx-
U imating the Frequency Spectra of
1/49 Transient Functions. E. S. Hoffer.
PBI09890, Mi\$1.75, Ph\$2.50.
- 3407 A Multiport Valve for Venting
U Submarine Underwater Logs.
1/49 S. H. Rosenberg.
PBI29303, Mi\$1.80, Ph\$1.80.
- 3408 Low-Frequency Electrical Noise
U Generated in Sliding Contacts.
1/49 B. M. Horton.
PBI09862, Mi\$2.25, Ph\$5.00.
- 3409 Capabilities of Computers with
U Possible Application in Electronic
3/49 Command Systems.
R. B. Whiteley.
- 3410 Broad-Band Antenna Considera-
U tions for One Type of Guppy
3/49 Submarine (SS350).
A. W. Walters.
- 3411 Vertical Patterns of Cylindrical
U Sleeve Antennas. A. W. Walters,
2/49 L. C. Huffman.
PBI29304, Mi\$2.70, Ph\$4.80.
- 3412 Preliminary Design of the
U AN/SPS-2 (XDQ) Antenna.
2/49 R. J. Adams, K. S. Kelleher,
C. R. Lundquist.
- 3413 Fungus Inhibitive Properties of
U Organic Compounds. Part III,
3/49 Bromoacetamides.
J. M. Leonard, V. L. Blackford.
PBI06532, Mi\$2.00, Ph\$2.75.
- 3414 The Effects of Melting Atmosphere,
U Time at Temperature, and Degasi-
2/49 fication on Valve Bronze.
W. H. Baer, B. L. Loring.
PB97406, Mi\$1.25, Ph\$1.25.
- 3416 An Arbitrarily Polarized Antenna
U for Use at X-Band. H. N. Chait.
3/49 PBI23145, Mi\$2.40, Ph\$3.30.
- 3417 Full Scale Shock Tests - USS
U Niagara, APA87 - Part 2 - Failures
2/49 in Electronic Equipment.
E. E. Bissell.
- 3418 Reflectivity of Sea Surface for
U Doppler Radar.
2/49 E. F. McClain, W. R. Ferris.
- 3419 Some Uses and Reactions of
U Lithium Aluminum Hydride.
2/49 H. W. Carhart, R. H. Blizzard,
J. E. Johnson, J. A. Krynitaky.
PBI12968, Mi\$2.50, Ph\$2.75.
- 3420 Annual Technical Report,
U Fiscal Year 1948.
1948
- 3421 Antifouling Paint VI. The Role of
U Pigment Particle Size in the
2/49 Performance of Antifouling Paint.
J. B. Ballentine, M. O. Yeater,
A. L. Alexander.
PBI3043, Mi\$1.75, Ph\$2.50.
- 3422 Investigation and Analysis of
U "Capture Effect" in I-m and a-m
2/49 Communication Systems.
R. W. Zeek.
PBI29305, Mi\$3.60, Ph\$9.30.
- 3423 An Improved Electronic Analog
U Computing Circuit.
2/49 W. A. McCool.
PBI09195, Mi\$1.75, Ph\$2.50.
- 3424 Improvement of Radar Tracking.
U A. E. Hastings, J. E. Meade.
2/49
- 3425 A Microwave Iconoscope.
U O. A. Tyson, J. K. Burton.
2/49 PBI29306, Mi\$2.40, Ph\$3.30.
- 3426 A Velocity Compensator for MTI.
U T. H. Chambers.
3/49
- 3427 Optimum Characteristics for
U Radar-Reflecting Materials.
3/49 W. L. Emery.
- 3428 Constant-Frequency Character-
U istics of a Dual-Feedback-Path
3/49 Bridge Oscillator.
J. M. Headrick.
PBI00631, Mi\$1.75, Ph\$2.50.
- 3429 Infrared-Sensitive Calcium Silicate
U Phosphors. J. H. Schulman,
3/49 R. J. Ginther.
PBI09861, Mi\$1.25, Ph\$1.25.
- 3430 Nonflammable Hydraulic Fluids.
U C. M. Murphy, W. A. Zisman.
3/49
- 3431 Broad-Band Modified Sleeve
U Antennas for Destroyers.
3/49 A. W. Walters.
- 3434 Development of Aluminum Alloys
U for Elevated Temperatures: An
3/49 Investigation of Complex Alloys
of Aluminum with Mischmetal
and Other Elements.
B. M. Loring, J. B. Russell.
- 3435 An Instantaneous Pulse-Signal
U Analyzer. J. E. Gall.
3/49
- 3436 Expressions for Input Impedance
U and Power Dissipation in Lossy
3/49 Concentric Lines.
E. H. Flath, Jr., O. Norgorden.
PBI12419, Mi\$2.00, Ph\$3.75.
- 3437 Antifouling Paints VII - Studies
U in Multiple Pigmentation.
4/49 A. L. Alexander, R. L. Benemelis.
PBI12418, Mi\$1.75, Ph\$2.50.
- 3438 Omnidirectional Antenna for Use
U in the KUW-1 Missile.
3/49 C. B. Barker.
- 3439 Hydrophobic Monolayers Adsorbed
U from Aqueous Solutions.
4/49 E. Shafirin, W. A. Zisman.
PBI05685, Mi\$2.25, Ph\$4.00.
- 3440 Shock and Vibration Bulletin
U No. 11, 12th Symposium.
2/49
- 3441 Electrodynamics of a Supercon-
U ducting Torus. J. de Launay.
4/49 PBI16531, Mi\$3.25, Ph\$10.25.
- 3442 The Chesapeake Bay Annex of the
U Naval Research Laboratory.
4/49 PBI10802, Mi\$1.75, Ph\$2.50.
- 3443 Tungsten Oxide Shadowing of
U Electron Micrographs.
4/49 P. G. Wilkinson, L. S. Birks.
PBI12974, Mi\$1.25, Ph\$1.25.
- 3444 The Microthermal Structure of
U the Ocean Near Key West,
4/49 Florida, Part II - Analysis.
R. J. Urlick, C. W. Searfoss.
PBI09795, Mi\$1.75, Ph\$2.50.
- 3445 An X-Band Beacon for Use in
U the AN/DPW-2(XB-1) Radar.
3/49 C. R. Ahern, G. F. Wall.
- 3446 Upper Atmosphere Research
U Report No. VII - Counting with
4/49 Geiger Counters.
H. E. Newell, Jr., E. C. Pressly.
PBI10805, Mi\$1.75, Ph\$2.50.

- 3448 Instrumentation for Magnetic-Recording Research.
U
4/49 R. H. Carson.
PB112417, Mi\$2.50, Ph\$6.25.
- 3449 A Positive Filter Type of Infra-red Gas Analyzer.
U
4/49 M. A. Elliott.
PB109797, Mi\$1.75, Ph\$2.50.
- 3450 Antenna Feeds for Sequentially Lobed Radars.
U
4/49 A. E. Hastings.
- 3451 Optimum Design Criterion for Simultaneous-Lobing Antennas.
U
4/49 M. L. Kales.
- 3452 Effects of Moisture and Fungus upon Electrical Insulating Material - A Laboratory Method.
4/49 J. M. Leonard, C. E. Patouillet.
PB109863, Mi\$1.75, Ph\$2.50.
- 3453 High-Strength Cast Steel for Navy Anchors. R. H. Raring.
U
4/49 PB112920, Mi\$1.75, Ph\$2.50.
- 3454 Full Scale Shock Tests - USS Niagara (APA87) - Part 3 - Vibration Investigation.
U
4/49 C. B. Cunningham.
- 3456 Properties of Heavy Commercial Forgings of a Low-Carbon Iron-Manganese-Nickel Alloy.
U
9/49 S. Toleman, W. J. Harris.
PB99691, Mi\$1.75, Ph\$2.50.
- 3457 A New Definition of a Fluid. Part I, The Stokesian Fluid.
U
4/49 C. A. Truesdell.
PB109783, Mi\$1.75, Ph\$2.50.
- 3458 Recommended Research Program for Carrier All Weather Flying.
U
4/49 A. Brodzinsky.
- 3460 Investigation of Nonlinear Receiving Circuits Under Two-Signal Conditions.
U
11/49 W. E. W. Howe, R. W. Zeek.
PB129307, Mi\$3.00, Ph\$6.30.
- 3462 The Measurement of Fluctuating Radiation Components in the Sky and Atmosphere, Part 1. Equipment, Measurement and Analysis, and Initial Results.
U
7/49 E. Goldstein.
PB99175, Mi\$2.00, Ph\$3.75.
- 3463 Passive Bearing Finder. Report No. 1, Effect of Synchronized Time-Gating on the Signal-to-Noise Ratio of Broadband Amplifier. J. W. Tucker.
U
9/49
- 3464 The Equivalent Selectivity of Transformer-Coupled Loop-Antenna Input Circuits.
U
5/49 S. V. Fratianni.
- 3465 Modification of a Semi-Precision Range-Delay Circuit for Operation at High Duty Cycles.
U
5/49 A. M. King.
- 3466 Methods of Obtaining Amplitude-Frequency Spectra.
U
5/49 A. E. Hastings.
PB100992, Mi\$1.25, Ph\$1.25.
- 3468 Pyrolysis and Chlorinolysis of Some Perchlorinated Unsaturated Compounds. J. A. Krynitzky, H. W. Carhart.
U
6/49 PB109860, Mi\$2.00, Ph\$3.75.
- 3469 A Miniature Microwave Pulsed-Triode Oscillator. D. O. Collup.
U
5/49 PB129309, Mi\$2.40, Ph\$3.30.
- 3470 The MTI Conversion Unit for SR-3 and SP5-6 Radars.
U
5/49 T. H. Chambers, R. E. Ellis.
- 3471 Precision Standards of Minute Capacitance Increments.
U
5/49 J. A. Connor.
PB99757, Mi\$4.25, Ph\$12.50.
- 3472 Propagation of Electromagnetic Waves Through a Stratified Medium, Part I, General Analysis. B. Salsberg.
U
6/49 PB99627, Mi\$1.75, Ph\$2.50.
- 3473 Equivalent Circuit for a Vibrating Beam which Includes Shear Motions. H. M. Trent.
U
5/49
- 3474 Weldability of Cast Chromium-Molybdenum Steels for Service in Steam Lines at 950°F.
U
6/49 M. A. Pugacz, J. A. Rinebolt.
PB109816, Mi\$2.00, Ph\$3.75.
- 3475 Ozone Measurements Made at Various Naval Establishments in National Eveready Weathering Units, Model X-1A, J. R. Britt.
U
5/49 PB103397, Mi\$2.00, Ph\$5.00.
- 3476 Propagation of Transverse Waves in Beams. I. Vigness.
U
6/49 PB98628, Mi\$2.00, Ph\$3.75.
- 3477 Group Coincidence Discrimination. S. W. Lichtman.
U
6/49 PB109815, Mi\$1.75, Ph\$2.50.
- 3478 The Silver Oxide-Zinc Alkaline Primary Cell - Part 1 - Effect of Temperature and of Volume and Concentration of Electrolyte on the Relationship between Capacity and Current Density for a Cell Using Sheet-Zinc Negative Plates. C. M. Shepherd.
U
7/49 PB109794, Mi\$2.00, Ph\$3.75.
- 3479 An Analysis of the Attack Approach to the Aircraft Duel.
U
6/49 B. F. Harrell.
- 3480 Development of Equipment and Procedures for Calibration of Pitot-Static Type Underwater Logs. J. V. H. Allen.
U
6/49 PB99614, Mi\$2.50, Ph\$5.25.
- 3481 Phosphate Coatings on Steel, I. J. B. Burbank.
U
6/49 PB100863, Mi\$2.50, Ph\$5.25.
- 3482 A Magnetic Amplifier Control Unit for Constant Frequency.
U
6/49 H. G. Schafer, L. J. Johnson.
PB129310, Mi\$3.60, Ph\$9.30.
- 3483 Chemical Effects of Intense Ultrasonic Waves in Liquids. A. Weisler.
U
6/49 PB120451, Mi\$2.70, Ph\$4.80.
- 3484 The Measurement of Slant Visibility. H. S. Stewart.
U
6/49 L. F. Drummeter, C. A. Pearson.
PB98629, Mi\$1.75, Ph\$2.50.
- 3485 Upper Atmosphere Research Report No. VIII - Prediction and Location of Rocket Impacts at White Sands Proving Ground. H. E. Newell, Jr.
U
6/49 PB126510, Mi\$2.40, Ph\$3.30.
- 3486 Analysis and Calibration of Loop Probes for Use in Measuring Interference Fields. G. A. Morgan, Jr.
U
6/49 PB111046, Mi\$3.00, Ph\$7.75.
- 3487 Amplitude Fluctuation in Radar Echo Pulses.
U
6/49 A. E. Hastings.
- 3488 Remote Tank-Level Indicators. J. M. Marzoff, Jr., W. K. Gardner.
U
5/49 PB111020, Mi\$2.25, Ph\$4.00.
- 3489 Reaction of Polyorganosiloxane Monolayers with Aqueous Substrates. H. W. Fox, E. M. Solomon, W. A. Eisman.
U
6/49 PB99009, Mi\$1.75, Ph\$2.50.

- 3490 U A Submarine Radio Rescue Buoy.
6/49 F. C. Kahler.
PB129311, Mi\$1.80, Ph\$1.80.
- 3491 U The Production of Metallic Flakes
6/49 for Absorbing Microwaves.
G. Sandoz.
- 3492 U A Network for Compensating the
6/49 Spectrum of the 6D4 Miniature
Gas Triode. G. C. Page.
- 3494 U Sleeve Antenna Considerations
7/49 for Task Fleet Flagship (CLC-1).
A. W. Walters.
- 3495 U Evaluation of a Novel Torque
6/49 Reducing Device.
H. M. Forkous, I. Vigness.
PB129131, Mi\$2.40, Ph\$3.30.
- 3496 U Second Report on Panoramic
6/49 Receiver CW Thresholds.
H. M. Beck.
- 3497 U Survey of Generalized Impedance
6/49 Measuring Techniques for
the Microwave Frequencies.
P. A. Portmann.
PB98982, Mi\$1.75, Ph\$2.50.
- 3498 U A Portable Servo Recorder for
7/49 Antenna Patterns. O. A. Tyson,
W. J. E. Edwards.
PB109796, Mi\$1.75, Ph\$2.50.
- 3499 U Impact Flash Produced by Caliber
7/49 50 Projectiles Upon Aircraft
Sheet Materials. R. L. Kahler.
PB99224, Mi\$1.75, Ph\$2.50.
- 3500 U Annual Technical Report,
1949 Fiscal Year 1949.
- 3501 U The Investigation of High-
7/49 Resolution Radar Phenomena,
Part I - Short-Pulse
Transmitter. C. O. Olson.
- 3502 U Pulse-Train Control System.
7/49 J. D. Young.
- 3503 U Frequency and Bandwidth Tolerances
6/49 for a Transponder Go-No-
Go Wavemeter. S. Paull.
PB99071, Mi\$2.25, Ph\$5.00.
- 3504 U A Study of the Radio-Frequency
7/49 Radiation from the Sun.
J. P. Hagen.
PB100292, Mi\$5.00, Ph\$16.25.
- 3505 U Electromagnetic Probes for
6/49 Supersonic Flames.
F. M. Gager, G. C. Schleiter.
- 3506 U Application of Interstage RC Net-
7/49 works to Provide Selectivity in
Low-Frequency Amplifiers.
W. C. Whitmer.
PB99072, Mi\$2.00, Ph\$3.75.
- 3507 U Fragment Penetration Resistance
7/49 Laws in the Theory of Aircraft
Vulnerability.
R. E. Roberson, G. R. Irwin,
W. George.
- 3508 U Rate of Reaction of Alkali Metals
6/49 and Aluminum Borohydride with
Water. T. K. Rice, F. J. Woods,
R. R. Miller.
PB110328, Mi\$2.50, Ph\$5.25.
- 3509 U Theoretical Investigation of a
7/49 Method for Common Antenna
Working in the High-Frequency
Band. L. R. White.
- 3510 U Phosphate Coatings on Steel
7/49 Part II - An X-Ray Diffraction
Study of the Phosphates of Zinc,
Iron, and Manganese.
J. B. Burbank.
PB100514, Mi\$2.25, Ph\$4.00.
- 3511 U A Reciprocating Spaced-Line
6/49 Sweep for Storage Tubes.
W. A. White, D. A. Fluegel.
PB99174, Mi\$1.75, Ph\$2.50.
- 3513 U Midcourse Guidance Antennas
7/49 for the Lark Missiles.
C. B. Barker.
- 3515 U Broadband Communication Antennas
8/49 for Destroyers of the USS
693 Class. A. W. Walters,
H. B. Janes.
- 3516 U Chemical Studies on Fungicides -
8/49 Part IV. Synthesis of Chloral
and Butyl Chloral Amides.
J. P. LaRocca, W. E. Weaver.
PB100096, Mi\$1.50, Ph\$1.50.
- 3517 U A Method of Measuring Small
8/49 Radio-Frequency Powers.
J. P. Leiphart, W. E. Leavitt.
PB99018, Mi\$1.75, Ph\$2.50.
- 3518 U Ratio Indicator. L. M. Wrye.
8/49 PB99687, Mi\$1.75, Ph\$2.50.
- 3519 U Dynamic Characteristics of Carbon
9/49 Pile Voltage Regulators.
R. L. Mills.
PB99198, Mi\$2.00, Ph\$2.75.
- 3520 U Chemical Studies on Fungicides -
8/49 Part V. Synthesis of Propylene
Oxides. J. P. LaRocca,
W. E. Weaver.
PB100093, Mi\$2.00, Ph\$2.75.
- 3521 U A Polar-Coordinate Detector for
8/49 Designating Targets from a
Radar PPI. J. W. Rabb.
- 3522 U Upper Atmosphere Research Report
8/49 No. IX, A Sun-Follower for
the V-2 Rockets. H. L. Clark.
PB100729, Mi\$3.00, Ph\$8.75.
- 3523 U Reflection Interference Filters
9/49 for the Infrared. D. V. Estes,
M. E. Barbour.
PB99758, Mi\$2.00, Ph\$3.75.
- 3524 U A Communication Antenna System
8/49 for Class SS-487 Guppy Subma-
rines. H. B. Janes,
A. W. Walters, L. R. White.
- 3525 U Contact Transients in Simple
9/49 Electrical Circuits.
F. E. Martin, H. E. Stauss.
PB99613, Mi\$2.00, Ph\$2.75.
- 3526 U Infrared Spectra and Structure of
9/49 Reaction Products of Ethanol-
amine and Aromatic Aldehydes.
L. W. Daasch, U. E. Hanninen.
PB99230, Mi\$1.75, Ph\$2.50.
- 3527 U Portable Precision Frequency
9/49 Meter. G. K. Jensen,
J. E. McGeogh.
PB99586, Mi\$2.00, Ph\$3.75.
- 3528 U The Memory Tube as a Storage
9/49 Medium for Moving Target Indication.
E. E. Herman,
I. C. Lantz.
- 3529 U The Thermal Discontinuity at the
9/49 Horizon Observed from High
Altitudes. C. F. Bieber,
H. L. Clark.
- 3530 U Antenna Wavefront Problems.
9/49 K. S. Kelleher.
PB99488, Mi\$1.75, Ph\$2.50.
- 3531 U Development of a 1,000-Mc
9/49 Intermediate-Frequency Amplifier.
W. F. Weedman.
- 3533 U D-C Analog Solution of Simul-
9/49 taneous Linear Algebraic Equations:
Circuit Stability Considerations.
W. A. McCool,
PB99762, Mi\$1.75, Ph\$2.50.
- 3534 U Physical Optics of Metal Plate
9/49 Media; Part I, Theoretical
Considerations. B. A. Lengyel.
PB99860, Mi\$2.50, Ph\$6.25.

Numerical Index

3535 - 3579

- 3535 Upper Atmosphere Research Report No. X. The Matrix Telemetering System. J. T. Mengel, N. R. Best, D. G. Mazur, K. M. Uglow. PB126508, Mi\$4.80, Ph\$13.80.
- 3537 Sixth Partial Report on the Pulse-Jet Engine - Grid Development. R. M. Schecter. PB116472, Mi\$2.00, Ph\$2.75.
- 3538 A Reflectometer for h-f Band. O. Norgorden. PB111682, Mi\$1.50, Ph\$1.50.
- 3539 The Sideband Technique of r-f Wave Analysis. C. H. Bredall. PB110335, Mi\$2.00, Ph\$3.75.
- 3540 A Direct-Reading r-f Wattmeter. W. E. Leavitt. PB100135, Mi\$2.00, Ph\$3.75.
- 3541 Transient Analysis of Voltage-Regulated Aircraft d-c Systems. D. G. Scorgie. PB100524, Mi\$1.75, Ph\$2.50.
- 3543 The Ability of IFF Mark X to Assist in the Recognition of Hostile Craft. C. E. Cleeton.
- 3545 Further Research on the Hydro-lube Fluids. J. E. Brophy, V. G. Fitzsimmons. PB110129, Mi\$2.75, Ph\$6.50.
- 3546 Phenothiazine-Type Antioxidants and their Mode of Action. H. Ravner. PB110218, Mi\$2.25, Ph\$4.00.
- 3547 Electrochemical Studies of Inhibitive Pigments. L. J. Waldron. PB100791, Mi\$2.25, Ph\$4.00.
- 3548 Studies of Time-Potential Changes on an Electrode Surface During Current Interruption, Part I. Zinc-Steel Couple in Synthetic Sea Water. S. Schuldiner, R. E. White. PB100753, Mi\$2.25, Ph\$6.00.
- 3549 The Constant-Potential Anodization of Lead in Sulfuric Acid Solutions. J. J. Lander. PB100268, Mi\$2.00, Ph\$3.75.
- 3550 Thermal and Oxidation Stabilities of the Polymethylphenylsiloxanes. C. M. Murphy, C. E. Saunders, D. C. Smith. PB100267, Mi\$2.00, Ph\$3.75.
- 3551 Experimental Video Link Transmitter at 1000 Mc for the Data Relay Navigation System. K. L. Huntley, D. R. Heinmiller.
- 3552 Mechanical and Material Variables Affecting the Correlation of Laboratory Tests with the Performance of Structures. C. E. Hartbower, W. S. Pellini. PB101190, Mi\$3.75, Ph\$11.25.
- 3553 A New Definition of a Fluid, Part II. The Maxwellian Fluid. C. A. Truesdell. PB110439, Mi\$2.50, Ph\$6.25.
- 3554 A Form of Green's Transformation. C. A. Truesdell. PB100134, Mi\$1.25, Ph\$1.25.
- 3555 A Stabilized Voltage Supply and Linear Amplifier for Photomultiplier Tubes. W. S. Plymale, Jr., D. F. Hansen. PB99615, Mi\$1.75, Ph\$2.50.
- 3556 Sound Transmission Measurements at 8 and 16 kc in Caribbean Waters, Spring 1949. R. J. Urlick.
- 3557 A Note on the Analog Computation of Determinants. R. E. Roberson, W. McCool. PB100040, Mi\$1.75, Ph\$2.50.
- 3558 Bernoulli's Theorem for Viscous Compressible Fluids. C. A. Truesdell. PB100099, Mi\$1.25, Ph\$1.25.
- 3559 The Ripple-Tank as an Aid to Phase-Front Visualization. A. H. Schooley. PB100002, Mi\$1.75, Ph\$2.50.
- 3560 A Study of Mold Washes for Sand Molds. R. E. Morey, C. G. Ackerlind. PB100515, Mi\$2.25, Ph\$4.00.
- 3561 Full-Scale Shock Tests - USS Niagara APA87, Part 4 - The Correlation of Measures of Maximum Values of Kinematic Quantities. S. P. Thompson.
- 3562 An Interferometer for Microwaves. B. A. Lengyel, A. J. Simmons. PB100525, Mi\$1.75, Ph\$2.50.
- 3563 A New, Safe, Graphite-Nodulizing Alloy. E. T. Myskowski, R. P. Dunphy. PB99919r, Mi\$2.00, Ph\$2.75.
- 3564 A Four-Unit Common Antenna Working Coupler System for 230 to 390 Mc. L. G. Robbins.
- 3565 An i-f Signal Simulator for Monopulse Radars. A. M. King.
- 3567 Spectroscopic Properties of Fluorocarbons and Fluorinated Hydrocarbons. D. C. Smith, J. R. Nielsen, L. H. Berryman, H. H. Claassen, R. L. Husson. PB110324, Mi\$7.00, Ph\$24.00.
- 3568 An Investigation of High-Resolution Radar Phenomena, Part II. High-Speed Oscilloscopy. N. L. Davis. PB129417, Mi\$2.70, Ph\$4.80.
- 3569 SSD Dummy Signal and Noise Generator. H. L. Clark.
- 3570 Automatic Control of a VHF/UHF Common Antenna Working System. L. G. Robbins.
- 3571 Theoretical Comparison of Internal Sensitivities of Basic Fire and Missile Control Radars. S. F. George.
- 3572 The Principles and Characteristics of an Instantaneous VHF Direction Finder. R. L. Libby.
- 3573 Frequency Analysis of Beam-Rider Turning Rates. C. E. Corum, C. L. Key.
- 3574 A Six-Unit Common Antenna Working Coupler System for 230 to 390 Mc. L. G. Robbins.
- 3575 Roll, Pitch, and Yaw of USS Macon (CA-132) as Measured at Sea. B. H. Stafford.
- 3576 Characteristics of Data Transmission System. R. B. Whiteley.
- 3577 Determination of Oxygen in Titanium. D. I. Walter. PB100296, Mi\$2.25, Ph\$4.00.
- 3578 Notes on Design, Construction, and Evaluation of Shielded Rooms. G. A. Morgan, Jr. PB100752, Mi\$2.25, Ph\$4.00.
- 3579 An Improved Range Error-Detection System for MK 50 Simultaneous Lobing Radar. R. J. Mackey, Jr.

- 3580 Improvements in Regenerative
U Frequency Dividers.
12/49 G. K. Jensen, F. E. Wyman.
PB100639, Mi\$2.00, Ph\$2.75.
- 3581 Harmonic Power Generation
U Using Unbiased Ideal Linear
12/49 Rectifiers. R. L. Easton.
PB100989, Mi\$1.75, Ph\$2.50.
- 3582 A 200-Mc *i-f* Amplifier.
U G. M. Bullock.
12/49
- 3583 Rocket Research Report No. 1 -
U The Viking No. 1 Firings.
12/49 M. W. Rosen, J. M. Bridger.
PB129125, Mi\$6.00, Ph\$18.30.
- 3584 Lark SP-1M Radar Equipment -
U NRL Prototype for ANA/MPQ-5
2/50 and ANA/SPQ-2 Radars.
- 3585 Scientific Program of the Naval
U Research Laboratory.
12/49
- 3586 A Low-Voltage X-Ray Tube.
U R. B. Vandergrift.
12/49 PB110130, Mi\$1.25, Ph\$1.25.
- 3587 Current and Temperature Rise in
U Aircraft Cables, Part 1 - Single
12/49 Cables Under Steady-State
Conditions. M. Schach.
PB100855, Mi\$2.00, Ph\$3.75.
- 3588 A Low-Inertia Recorder for
U Directive Antenna Patterns.
12/49 O. A. Tyson.
PB100797, Mi\$2.00, Ph\$3.75.
- 3589 Rotated Elastic and Piezoelectric
U Coefficients of Ammonium Di-
12/49 hydrogen Phosphate.
B. J. Faraday.
PB110131, Mi\$2.75, Ph\$7.50.
- 3590 Laboratory Studies of Mustard
U Decontamination by Steam. I.
1/50 Effect of Temperature.
H. R. Davis, D. L. Venezky,
G. H. Fielding.
- 3591 Visibility of Navy Radioactive
U Self-Luminous Personnel
12/49 and Deck Markers.
L. J. Boardman, L. H. Dawson.
PB110435, Mi\$2.00, Ph\$3.75.
- 3592 Optical Radiation from Gaseous
U Discharges. Part I, Electrode-
1/50 less Discharges.
L. F. Keene, R. A. Richardson.
- 3593 A Limited Analytical Survey of
U Pulse Time Modulation with a
12/49 Fixed Reference. R. C. Jones.
- 3594 Night Sky Brightness Measure-
U ments in Maryland and Greenland
1/50 during 1949. M. Koomen.
PB129133, Mi\$2.40, Ph\$3.30.
- 3595 Computer for Radiation Patterns
U of High-Gain Antennas.
1/50 B. I. Small.
PB100988, Mi\$2.25, Ph\$5.00.
- 3596 The Determination of Shock
U Isolator Performance.
1/50 J. P. Walsh, R. E. Blake.
PB101170, Mi\$1.75, Ph\$2.50.
- 3597 Proposed Shock and Vibration
U Requirements of Shipboard
1/50 Mounts. R. E. Blake,
J. P. Walsh.
PB110338, Mi\$2.00, Ph\$3.75.
- 3598 A Logarithmic Recorder for
U Measuring Light Down to Low
1/50 Intensities. W. S. Plymale, Jr.
PB110436, Mi\$1.75, Ph\$2.50.
- 3599 Physical Optics of Metal Plate
U Media, Part 2, Experimental
1/50 Studies. B. A. Lengyel,
A. J. Simmons, J. J. Brady,
M. D. Pearson, S. Peoples.
PB100798, Mi\$2.00, Ph\$3.75.
- 3601 Survey of Methods for Precision
U Frequency Control.
12/49 H. J. Peake, J. K. Steckel.
- 3602 An Evaluation of the Jentzsch
U Fuel Tester. J. E. Johnson,
2/50 R. H. Blizard, H. W. Carhart.
PB110340, Mi\$1.75, Ph\$2.50.
- 3603 Principles of Gating.
U W. H. Johnson, W. O. Baker,
1/50 W. S. Pellini.
PB110233, Mi\$2.00, Ph\$2.75.
- 3604 The Behavior of Water in Jet
U Fuels and the Clogging of
1/50 Micronic Filters at Low
Temperatures. J. A. Krynsky,
J. W. Crellin, H. W. Carhart.
PB122129, Mi\$3.30, Ph\$7.80.
- 3605 The Development of Beacon AFC
U for Radar Equipment Mark 25.
10/49 G. F. Wall.
- 3609 Chemical Studies on Fungicides.
U Part VI - Synthesis of Thiocyno-
1/50 acetates. W. E. Weaver,
W. Gillette.
PB101140, Mi\$2.00, Ph\$2.75.
- 3610 Filter Paper Studies VI. Effect
U of Viscose and Asbestos Types.
1/50 H. W. Knudson,
R. D. Parsons.
- 3611 Filter Paper Studies VII. General
U Mill Procedure and Summary.
1/50 H. W. Knudson, R. D. Parsons.
- 3612 Standing-Wave Measuring Equip-
U ment for Microwaves.
1/50 P. A. Portmann.
PB110333, Mi\$2.25, Ph\$5.00.
- 3613 Penetration of Gamma Radiation
U Through Thick Targets.
1/50 W. R. Faust.
PB101173, Mi\$1.25, Ph\$2.50.
- 3614 Frequency Stabilization System
U for Reflex Klystrons.
1/50 O. A. Tyson.
PB110434, Mi\$1.75, Ph\$2.50.
- 3615 Synthesis of Phenothiazine
U Derivatives for Antioxidant
10/49 Studies. N. L. Smith.
PB110327, Mi\$2.25, Ph\$4.00.
- 3616 The Cathodic Protection of Ships'
U Hulls in Sea Water - A Critical
1/50 Review of the Problem.
S. Schuldiner.
PB101169, Mi\$3.00, Ph\$6.75.
- 3617 Two-Dimensional Simulation of
U the Automatic Aircraft Intercept
1/50 Control System. H. G. Paine.
- 3618 Alkaline Storage Batteries.
U A Critical Evaluation of their
1/50 Characteristics. A. L. Pitman.
PB129418, Mi\$3.30, Ph\$7.80.
- 3619 Chemical Studies on Fungicides,
U Part VII - Resolution of the
1/50 *cis*-trans di(bromoacetate) of
1,4-cyclohexanediol.
J. P. LaRocca, W. E. Weaver.
PB101141, Mi\$1.50, Ph\$1.50.
- 3620 Development of a 1000-Mc
U Broadband Crystal Detector.
1/50 R. M. Gran.
- 3621 Transient Characteristics of
U d-c Motors and Generators.
1/50 E. L. Brancato, A. T. McClinton.
PB110334, Mi\$2.50, Ph\$6.25.
- 3622 The Output Current of a Nonlinear
U Device. B. Salzberg.
1/50 PB100923, Mi\$1.75, Ph\$2.50.

Numerical Index

3624 - 3667

- | | | | | | |
|------|--|------|--|------|---|
| 3624 | Variable Magnification - A Means of Increasing the Resolution of Television Transmitted Data. D. O. Collup. PB110336, Mi\$2.00, Ph\$2.75. | 3638 | A Thrust Computer for Turbo-jet Engines. E. S. Van Valkenburg. PB110339, Mi\$1.75, Ph\$2.50. | 3653 | A Regenerative Frequency Divider of Improved Stability. G. K. Jensen. PB101421, Mi\$2.00, Ph\$2.75. |
| 3625 | Response Characteristics of Double Strip Bolometers Manufactured by Baird Associates. L. F. Drummeter, E. H. Ockert, J. E. Perry. | 3639 | Signal Fluctuations in Long-Range Overwater Propagation. W. S. Ament, M. Katzin. PB129132, Mi\$1.80, Ph\$1.80. | 3655 | A Circuit for Improving the Off-Channel Rejection of a Pulsed-Signal Receiver. D. W. Lynch. PB101171, Mi\$2.00, Ph\$2.75. |
| 3627 | Directive Communication System with Mutually Aligning Antennas. E. R. Longman, J. Awramik, Jr. | 3640 | A Rotary Joint for Model AN/SPS-3 (XDK) Radar. R. G. Fellers. | 3656 | Experiments Relating to the Penetration Depth in Superconductors. M. C. Steele. PB101422, Mi\$2.00, Ph\$2.75. |
| 3628 | New Thermal Conductivity Methods in Gas Analysis. C. C. Minter. PB110282, Mi\$2.00, Ph\$2.75. | 3641 | Rocket Research Report No. II - The Viking No. 2 Firings. M. W. Rosen, J. M. Bridger. PB129126, Mi\$3.60, Ph\$9.30. | 3657 | Infrared Spectra of Phosphorus Compounds. L. W. Daasch, D. C. Smith. PB101494, Mi\$2.75, Ph\$7.50. |
| 3631 | A Technique for the Direct Frequency Comparison and Continuous Recording of Frequency Standards. R. R. Stone, Jr., H. F. Hastings. PB101172, Mi\$2.25, Ph\$4.00. | 3642 | The Design of Saturable Reactors. J. E. Hart. PB110337, Mi\$1.25, Ph\$1.25. | 3658 | Eight-Channel Digital System. D. H. Gridley. |
| 3632 | Chemical Studies on Fungicides - Part VIII-Synthesis of α , α -dichloroacetamides. W. E. Weaver, A. D. Swensen. PB110326, Mi\$1.50, Ph\$1.50. | 3643 | Investigation of Intermittent Faults in 30.0-volt d-c Aircraft Electrical Systems. M. Trbovich, P. E. Toomire. PB110438, Mi\$2.25, Ph\$5.00. | 3659 | A Video Pulse Counter. C. C. Watterson. PB101801, Mi\$2.25, Ph\$4.00. |
| 3633 | Organophosphorus Compounds. The Preparation of Alkyl-dichlorophosphines. R. B. Fox. PB110325, Mi\$1.50, Ph\$1.50. | 3644 | Time Sequential Frequency Indicators. H. M. Beck. PB129134, Mi\$2.40, Ph\$3.30. | 3660 | A Comparative Study of the XRAT and XRAM Guidance Systems being Developed for the Angled-Arrow Projectile. A. H. Schooley. |
| 3634 | Radiation from Helices. A. E. Marston, M. D. Adcock. PB101174, Mi\$2.25, Ph\$5.00. | 3645 | An Improved Method of Synthesis of Aryldichlorophosphines. B. Buchner. PB110440, Mi\$2.00, Ph\$2.75. | 3661 | Measurements of Secondary-Electron Emission from Common Phosphors. W. A. White. PB101420, Mi\$2.00, Ph\$2.75. |
| 3635 | High-Voltage Stabilization by Means of the Corona Discharge between Coaxial Cylinders. S. W. Lichtman. PB110437, Mi\$1.75, Ph\$2.50. | 3646 | A Study of the Effect of Various Binders and Additives on the Hot Strength of Molding Sands. R. E. Morey, C. G. Ackerrind. PB101393, Mi\$2.25, Ph\$4.00. | 3662 | A Compensation Technique Applicable to the Bette-Hole Coupler. W. E. Leavitt. PB101394, Mi\$2.00, Ph\$2.75. |
| 3636 | Preliminary Ballistics Studies of Titanium - 12th Partial Report on Light Armor. W. George, J. B. Clark, A. M. Sullivan. | 3647 | The Contribution of Riser and Chill-Edge Effects to the Soundness of Cast Steel Plates. H. F. Bishop, W. S. Pellini. PB101392, Mi\$2.25, Ph\$4.00. | 3663 | An Intermittent Signal Simulator for Intercept Equipment Testing. A. Q. Tool. |
| 3637 | Measurement of Insulation Resistance on Energized Systems. E. L. Brancato, A. T. McClinton. PB101176, Mi\$2.25, Ph\$4.00. | 3648 | Charge Storage in Cathode-Ray Tubes. C. V. Parker. PB101395, Mi\$2.25, Ph\$4.00. | 3664 | The Expression of Error Entailed in Measuring Capacitor Temperature-Coefficients. J. A. Connor. PB101174, Mi\$1.75, Ph\$2.50. |
| | | 3649 | Effects of Terminal Voltage, Load Current, and Minimum Rotor Speed on the Weight of d-C Aircraft Generators. D. H. Scott. PB101857, Mi\$3.75, Ph\$10.25. | 3665 | An Electronic Aid for Aircraft Tracking and Interception. H. G. Paine. |
| | | 3650 | General Purpose Bolometer Amplifier. O. A. Tyson. PB101391, Mi\$2.25, Ph\$3.75. | 3666 | A Submarine Direction Finder for Radar Intercept. The AN/BPA-1 (XN-1). J. R. Gruber. |
| | | 3651 | The Spreading of Liquids on Low-Energy Surfaces. I. Polytetrafluoroethylene. H. W. Fox, W. A. Zisman. PB101245, Mi\$2.00, Ph\$3.75. | 3667 | Structural Guides for Synthetic Lubricant Development. C. M. Murphy, W. A. Zisman. PB101495, Mi\$2.00, Ph\$2.75. |

- 3668 Radio Field Intensity Studies
U on the Arctic Voyage of the
5, 50 Icebreaker USS Edisto (AGB-2).
B. H. Weston, Jr.
- 3669 A New Instrument for Determining
U Hydrogen in Submarines.
6, 50 C. C. Minter, L. M. J. Burdy.
PB101872, Mi\$2.00, Ph\$2.75.
- 3670 Preliminary Studies of Special
U Aluminum Armor Forgings -
4, 50 13th Partial Report on Light
Armor. H. Bernstein,
W. George.
PB129419, Mi\$2.70, Ph\$4.80.
- 3672 Phthalocyanine Lubricating
U Greases. V. G. Fitzsimmons.
5, 50 R. L. Merker, C. R. Singleterry.
PB101873, Mi\$2.25, Ph\$4.00.
- 3673 The Electroforming of
U Millimeter-Wavelength Wave-
6, 50 Guide Components.
R. J. Coates, S. F. Rogers.
PB101799, Mi\$2.00, Ph\$2.75.
- 3674 Oleophobic Monolayers III.
U Wetting Effects and Adhesional
6, 50 Energies. E. G. Shafrin.
W. A. Zisman.
PB101486, Mi\$2.00, Ph\$2.75.
- 3675 Equilibrium Currents Induced
U in Zincblende by Electron Bom-
5, 50 bardment of Negative Electrode.
M. F. Distad.
PB102304, Mi\$2.00, Ph\$2.75.
- 3676 Analysis and Design of r-c
U Phase-Shift Oscillator Networks.
6, 50 K. A. Morgan.
PB102595, Mi\$6.00, Ph\$15.25.
- 3677 CW Attenuation and Phase Meas-
U urements of Coaxial Transmis-
6, 50 sion Lines. L. L. Cazenavette.
PB101655, Mi\$2.00, Ph\$2.75.
- 3678 Generation of Very Short Pulses
U at Megacycle Rates.
6, 50 J. D. Young.
- 3679 A Device for Computing Cor-
U relation Functions.
6, 50 A. E. Hastings, J. E. Meade.
PB101656, Mi\$1.50, Ph\$1.50.
- 3680 Surface Chemical Phenomena in
U Lubrication. J. E. Brophy,
6, 50 W. A. Zisman.
PB103774, Mi\$2.25, Ph\$4.00.
- 3681 Passive Bearing Finder. Report
U No. 2. Signal-to-Noise Ratio
6, 50 of the R-C Coupled Band-Pass
Amplifier. J. W. Tucker.
- 3682 Signal-to-Noise Ratio in
U Envelope Matching Systems.
7, 50 S. F. George.
- 3684 Austenite Formation During
U Tempering and its Effects on
6, 50 Mechanical Properties.
E. F. Bailey,
W. J. Harris, Jr.
PB101876, Mi\$2.00, Ph\$2.75.
- 3685 Organic Coatings Adaptable to
U Fuel Storage. J. E. Cowling,
6, 50 I. J. Eggert, A. L. Alexander.
PB129420, Mi\$3.90, Ph\$10.80.
- 3686 Elliptically Polarized Waves
U and Antennas. M. L. Kales.
6, 50 J. I. Bohnert.
PB102306, Mi\$2.25, Ph\$4.00.
- 3687 Analysis of the Automatic Carrier
U Controlled Approach System.
5, 50 J. B. Reynolds, Jr.,
I. M. Saffitz.
- 3688 Optimum Thermal Compensa-
U tion of Capacitance-Tuned L-C
6, 50 Circuits. J. A. Connor.
PB102303, Mi\$2.25, Ph\$4.00.
- 3689 An Adjustable Temperature-
U Coefficient Capacitor.
6, 50 J. A. Connor.
PB102005, Mi\$2.00, Ph\$2.75.
- 3690 Transparency of an Acid-
U Aniline Flame to S-Band
6, 50 Radiation. H. M. Bryant,
D. L. Fye.
- 3692 Simulator for Data Relay
U Navigation-Carrier Controlled
7, 50 Approach (DARN-CCA)
System. J. D. Albright,
J. J. Conlon.
- 3693 Electron Microscopy of Metal
U Samples by Replica Techniques.
6, 50 L. S. Birks, R. T. Seal.
PB102007, Mi\$2.00, Ph\$2.75.
- 3694 Laboratory Studies of Mustard
U Decontamination by Steam. II.
6, 50 Effect of Paint Thickness.
H. R. Davis, G. H. Fielding.
- 3695 Rocket Research Report No. III -
U Vibration in the Viking No. 3
7, 50 Rocket. C. B. Cunningham,
E. E. Bissell, L. H. A. Feher,
R. W. Stroup.
PB102004, Mi\$2.50, Ph\$6.25.
- 3696 A Parasitic FM Measurement
U Technique for AM Signal
7, 50 Generator. W. E. Leavitt.
PB101871, Mi\$2.00, Ph\$2.75.
- 3699 Signal-to-Noise Improvement
U by Pulse Integration.
7, 50 C. E. Corum.
PB102305, Mi\$2.00, Ph\$2.75.
- 3700 Annual Technical Report.
U Fiscal Year 1950.
- 3701 An Improved Technique for Com-
U paring Harmonically Related
7, 50 Frequencies. D. I. Troxel.
PB101798, Mi\$2.00, Ph\$2.75.
- 3702 Development of the Radar Seeker
U AN, DPN-7 (XN-1).
7, 50 H. Gordon, Jr.
- 3707 Transient Electrical Characteris-
U tics of Lead-Acid Submarine
6, 50 Batteries. B. G. Bingham.
PB102174, Mi\$2.25, Ph\$4.00.
- 3708 Aging Characteristics of
U Electrical Insulation.
7, 50 R. E. Whipple.
PB102619, Mi\$2.00, Ph\$2.75.
- 3709 A Study of the Four-Ball Wear
U Machine. W. C. Clinton.
9, 50 PB103608, Mi\$3.00, Ph\$7.75.

- 3710 The Measurement of Fluctuating Radiation Components in the Sky and Atmosphere. Part 2. Final Results and their Application to Optical Communication. E. Goldstein. PB120617, Mi\$2.75, Ph\$6.50.
- 3711 Minimum Leakage and Clearance Distances for Electrical Power Systems. J. E. Hart, A. T. McClinton. PB102307, Mi\$2.25, Ph\$4.00.
- 3712 The Properties of Evaporated Gold and Tungsten Oxides. P. G. Wilkinson. PB102175, Mi\$2.00, Ph\$2.75.
- 3713 The Brightness and Polarization of the Daylight Sky at Altitudes of 18,000 to 38,000 Feet above Sea Level. D. M. Packer, C. Lock. PB102599, Mi\$3.25, Ph\$9.00.
- 3714 Proposed Design of the NRL Electronic Digital Computer. D. H. Gridley, B. L. Sarahan. PB101875, Mi\$2.00, Ph\$2.75.
- 3715 Upper Atmosphere Research Report No. XI. A Note on the Geometry of Geiger Counter Telescopes. H. E. Newell, Jr., E. C. Pressly. PB102006, Mi\$2.00, Ph\$2.75.
- 3716 Rocket Research Report No. IV. The Viking No. 3 Firings. M. W. Rosen, J. M. Bridger. PB129124, Mi\$4.50, Ph\$12.30.
- 3717 A Survey of the Theoretical Aspects of the Luminescence of Inorganic Crystalline Solids. L. R. Furlong. PB102597, Mi\$2.50, Ph\$5.25.
- 3718 The Image-Intensifier Memory Tube. S. T. Smith. PB129421, Mi\$2.70, Ph\$4.80.
- 3719 The Lattice Distortion Spectrum of Evaporated Gold. P. G. Wilkinson. PB101797, Mi\$2.00, Ph\$2.75.
- 3720 L-, S-, and X-Band Radar Echoes from Rifle Shells. F. C. Macdonald. PB102616, Mi\$2.00, Ph\$3.75.
- 3721 Rheological Properties of a Lubricating Grease. C. R. Singleterry, E. E. Stone. PB102618, Mi\$2.25, Ph\$4.00.
- 3723 Organic Scintillators. S. H. Liebson. PB102841, Mi\$2.25, Ph\$4.00.
- 3724 Frequency Analysis by Electronic Analog Methods. W. A. McCool. PB102439, Mi\$2.00, Ph\$2.75.
- 3725 A Study of Some Mechanical Foams and their Use for Extinguishing Tank Fires. R. L. Tuve, H. B. Peterson. PB103775, Mi\$4.50, Ph\$12.75.
- 3726 The Susceptance of a Thin Iris in Circular Waveguide with the TM₀₁ Mode Incident. K. L. Dunning, R. G. Fellers. PB103120, Mi\$2.50, Ph\$5.25.
- 3727 Free-Flight Air-Drag Measurement Techniques. A. B. J. Clark, F. T. Harris, Appendix, R. E. Roberson. PB102839, Mi\$2.25, Ph\$4.00.
- 3728 Development Work on Two Signal Generators for the Range of 3650 to 10,900 Mc. E. W. Weimer, R. H. Snider. PB103039, Mi\$3.00, Ph\$7.75.
- 3731 A Direct-Reading Vapor-Pressure Psychrometer. J. E. Dinger, R. W. Brown. PB102440, Mi\$2.00, Ph\$2.75.
- 3733 Upper Atmosphere Research Report XII. Direct Measurements of Solar Extreme Ultraviolet and X-Rays from Rockets by Means of a CaSO₄:Mn Phosphor. K. Watanabe, J. D. Purcell, R. Tousey. PB103043, Mi\$3.00, Ph\$7.75.
- 3735 Flashing of dc Machines Caused by Short Circuits. A. T. McClinton, E. L. Brancato. PB102598, Mi\$2.00, Ph\$2.75.
- 3736 Dosimetry of X-Rays and γ -Rays. J. H. Schulman. PB129135, Mi\$2.40, Ph\$3.30.
- 3737 A Moving Interrogator Simulator. J. W. Bryan. PB102596, Mi\$2.00, Ph\$2.75.
- 3739 Techniques of Microwave Impedance Measurement by Reflection-Coefficient Methods. P. A. Portman. PB102840, Mi\$2.00, Ph\$2.75.
- 3740 Visibility of Characters at Low Levels of Illumination. L. J. Boardman, L. H. Dawson. PB103383, Mi\$2.25, Ph\$4.00.
- 3741 Seventh Partial Report on the Pulse-Jet Engine-Measurement of the Air-Fuel Ratio. D. W. Baker. PB103121, Mi\$2.00, Ph\$2.75.
- 3742 Eighth Partial Report on the Pulse-Jet Engine-Whirling Arm. W. K. Barrett, C. D. Porter. PB113628, Mi\$2.00, Ph\$2.75.
- 3743 The Reaction Between Tertiary Amines and Organic Acids in Non-polar Solvents. S. Kaufman, C. R. Singleterry. PB103040, Mi\$2.25, Ph\$4.00.
- 3744 Transient Fault Currents in Aircraft d-c Systems. D. G. Scorgie. PB103041, Mi\$2.00, Ph\$2.75.
- 3745 Investigation of Stress-Strain Properties of Metal Wires by Electrical Resistance Changes. I. Vigness. PB103117, Mi\$2.00, Ph\$2.75.
- 3746 Results of Hazeltine Distance-Measuring Equipment Tests. G. P. Ohman.
- 3747 Low-Noise Measurement of Tubes for Infrared Applications. P. J. Daly. PB103042, Mi\$2.00, Ph\$2.75.
- 3748 A Compact Broadband Microwave Quarter-Wave Plate. A. J. Simmons. PB102838, Mi\$2.00, Ph\$2.75.
- 3749 A Study of Austenite Transformation by X-Ray Diffraction. L. S. Birks. PB102837, Mi\$1.50, Ph\$1.50.
- 3751 Rocket Research Report No. V. The Viking Shipboard Firings. M. W. Rosen, J. M. Bridger. PB129123, Mi\$4.80, Ph\$13.80.

- 3752 Impedance Matching in Coaxial
U Lines with Sleeve and Undercut
10/50 Impedance Transformers.
C. B. Barker.
PB103119, Mi\$2.25, Ph\$4.00.
- 3753 A Proposed Simple Ultra-High-
U Bandwidth Radar. (U).
11/50 R. E. White.
- 3755 An Automatic Antenna-Tuning
U Unit. V. True.
11/50 PB102962, Mi\$2.00, Ph\$2.75.
- 3757 Radiation from Dielectric Rods of
U Uniform Circular Cross Section
11.50 A. E. Marston.
PB103118, Mi\$2.00, Ph\$2.75.
- 3759 Noise in Tracking Radars.
U J. E. Meade, A. E. Hastings.
11/50 H. L. Gerwin.
- 3760 Theoretical Notes on a Method of
U Common Antenna Working in the
11.50 High-Frequency Band.
L. R. White.
PB129136, Mi\$2.40, Ph\$3.30.
- 3761 Filtration Characteristics and
U other Properties of Diesel, Avgas
11/50 Emergency Jet Fuels.
J. A. Krynsky, J. W. Crellin,
H. W. Carhart.
- 3772 Resolution Capabilities of Cathode-
U Ray Tubes 10PB4, 10FP4, and
11.50 16AP4. M. F. Hodges.
- 3773 Steady-State Characteristics of
U Carbon-Pile Voltage Regulators.
12.50 D. G. Scorgie, D. H. Schaefer.
PB103122, Mi\$2.00, Ph\$2.75.
- 3775 The Energy Spectrum of the
U Products of a Thermal Reaction.
12.50 A. J. Ruhlig.
- 3779 Magnetic-Amplifier Noise
U Limitations. J. W. Tucker.
12.50 PB103609, Mi\$2.50, Ph\$5.25.
- 3780 Converging Lens Dielectric
U Antennas. F. E. Boyd.
12/50 PB129137, Mi\$2.40, Ph\$3.30.
- 3781 Tropical Performance of Fungi-
U cidal Coatings. J. M. Leonard,
1.51 A. L. Pitman.
PB103381, Mi\$2.00, Ph\$2.75.
- 3784 Techniques for Electronic Control
U of UHF Oscillators. J. K. Steckel.
1/51 PB129138, Mi\$2.40, Ph\$3.30.
- 3785 Solidification of Steel from Sand
U and Chill Walls. H. F. Bishop,
1/51 F. A. Brandt, W. S. Pellini.
PB103559, Mi\$2.25, Ph\$4.00.
- 3786 Relation of Casting Quality to
U Gating Practice. W. H. Johnson,
1/51 H. F. Bishop, W. S. Pellini.
PB103382, Mi\$2.00, Ph\$2.75.
- 3787 The Size of Soap Micelles in Ben-
U zine from Osmotic Pressure and
1/51 from the Depolarization of
Fluorescence. L. A. Weinberger,
C. R. Singleterry.
PB103561, Mi\$2.00, Ph\$2.75.
- 3790 Application of Explosion Bulge
U Test to the Study of the Plastic
1.51 Deformation of Weldments.
C. E. Hartbower, W. S. Pellini.
PB103772, Mi\$2.50, Ph\$5.25.
- 3792 Solidification of Gray Iron in Sand
U Molds. R. P. Dunphy.
1.51 W. S. Pellini.
PB103562, Mi\$2.00, Ph\$2.75.
- 3793 The Ring Method of Measuring
U Surface Tension for Liquids of
1.51 High Density and Low Surface
Tension. H. W. Fox,
C. H. Chrisman, Jr.
PB103563, Mi\$2.00, Ph\$2.75.
- 3794 Propagation of Transverse Waves
U in Plates. I. Vigness.
1.51 PB103560, Mi\$2.25, Ph\$4.00.
- 3795 A Waveguide Rotary Joint with
U Waveguide Feed. L. D. Breetz.
1/51 PB103380, Mi\$2.00, Ph\$2.75.
- 3796 Some Directional Properties of
U Deep-Water Ambient Noise.
1/51 R. J. Urlick.
PB103605, Mi\$2.00, Ph\$2.75.
- 3797 Competitive Adsorption from
U Solution between Hydrophobic
1/51 and Hydrophilic Molecules and
Ions. R. L. Merker,
W. A. Zisman.
PB103604, Mi\$2.00, Ph\$2.75.
- 3798 A Study of Remote-Indicating
U Submarine-Battery Hydrometers.
1/51 F. S. Thomas, A. L. Giorgi.
PB129422, Mi\$3.30, Ph\$7.80.
- 3799 On the Mechanics of
U Magnetic Amplifier Operation.
1/51 R. A. Ramey.
PB104106, Mi\$2.25, Ph\$4.00.

Numerical Index

3800 - 3842

- | | | | | | |
|-------|--|--|--|--|--|
| 3800 | A Model Technique for the Measurement of the Radar Characteristics of Targets. D. L. Ringwalt. PB129423, Mi\$2.40, Ph\$3.30. | | | | |
| U | | | | | |
| 6/51 | | | | | |
| 3801 | Choke Control in Finger Gating. W. H. Johnson, H. F. Bishop, W. S. Pellini. PB103773, Mi\$2.00, Ph\$2.75. | | | | |
| U | | | | | |
| 1/51 | | | | | |
| 3802 | A Proposal for a Binary Adder Tube Utilizing Beam-Deflection Principles. D. H. Gridley. PB103607, Mi\$1.50, Ph\$1.50. | | | | |
| U | | | | | |
| 1/51 | | | | | |
| 3805 | The Adsorption of Hydrophobic Monolayers of Carboxylic Acids. H. R. Baker, E. G. Shafrin, W. A. Zisman. PB103608, Mi\$2.25, Ph\$4.00. | | | | |
| U | | | | | |
| 1/51 | | | | | |
| 3808 | Development of NRL Photoelectric Particle-Size Meters (Owis). W. L. Anderson, J. K. Thompson. PB105181, Mi\$2.00, Ph\$2.75. | | | | |
| U | | | | | |
| 5/51 | | | | | |
| 3809 | A Lumped Constant Complementary Filter for Frequency Ranges. 157 to 212 Mc and 225 to 400 Mc. W. J. J. Klein, B. N. Navid. | | | | |
| U | | | | | |
| 6/51 | | | | | |
| 3810 | Visual Measurements of Atmospheric Transmission of Light at Night. C. A. Pearson, M. J. Koomen, R. Tousey. PB103914, Mi\$2.75, Ph\$2.75. | | | | |
| U | | | | | |
| 2/51 | | | | | |
| 3811 | The Contribution of Riser and Casting End Effects to the Soundness of Cast Steel Bars. H. F. Bishop, E. T. Myakowski, W. S. Pellini. PB103915, Mi\$2.00, Ph\$2.75. | | | | |
| U | | | | | |
| 3/51 | | | | | |
| 3814 | Dielectric-Guide Antennas for Aircraft. F. E. Boyd, D. H. Russell. PB129139, Mi\$3.60, Ph\$9.30. | | | | |
| U | | | | | |
| 10/51 | | | | | |
| 3818 | Measurements of Mechanical Shock by Peak-Reading Instruments. I. Vigness. PB104312, Mi\$2.00, Ph\$2.75. | | | | |
| U | | | | | |
| 5/51 | | | | | |
| 3819 | Intermittent Faults in 120/208-Volt A-C and 120-Volt D-C Aircraft Electrical Systems. P. E. Toomire, M. Trbovich. PB104107, Mi\$2.25, Ph\$4.00. | | | | |
| U | | | | | |
| 5/51 | | | | | |
| 3821 | Methods of Calibrating Standard-Signal Generators. G. A. Morgan, Jr. PB104674, Mi\$2.25, Ph\$4.00. | | | | |
| U | | | | | |
| 6/51 | | | | | |
| 3822 | A Double-Pulse Generator for Transponder Simulation. C. C. Watterson. PB103913, Mi\$2.00, Ph\$2.75. | | | | |
| U | | | | | |
| 3/51 | | | | | |
| 3823 | Relative Radiation Density and Temperature Distribution of Rocket Flames. F. E. Wyman. PB129140, Mi\$2.70, Ph\$4.80. | | | | |
| U | | | | | |
| 7/51 | | | | | |
| 3824 | Liquid and Vapor Corrosion Inhibitors. H. R. Baker, W. A. Zisman. PB104313, Mi\$1.75, Ph\$2.50. | | | | |
| U | | | | | |
| 5/51 | | | | | |
| 3827 | Elastomer Compounds for High-Vacuum Applications. J. R. Britt. PB104729, Mi\$2.00, Ph\$2.75. | | | | |
| U | | | | | |
| 7/51 | | | | | |
| 3828 | Resistance of Materials to Mechanical Shock. B. Goldberg, T. E. Pardue. PB105301, Mi\$2.25, Ph\$4.00. | | | | |
| U | | | | | |
| 7/51 | | | | | |
| 3830 | Rocket Research Report No. VII. The Viking No. 5 Firings. M. W. Rosen, J. M. Bridger, H. Spitz. PB129122, Mi\$3.90, Ph\$10.80. | | | | |
| U | | | | | |
| 7/51 | | | | | |
| 3834 | Use of an Electrolytic Tank in Study of Surface Electric Field Distributions. H. G. Talmadge, Jr. | | | | |
| U | | | | | |
| 10/51 | | | | | |
| 3835 | Measurements of the Thermal Conductivity of Sodium and Potassium. C. T. Ewing, J. A. Grand. PB105058, Mi\$2.25, Ph\$4.00. | | | | |
| U | | | | | |
| 8/51 | | | | | |
| 3836 | The Electrical Properties of Certain Fluorinated Hydrocarbons. R. C. Bowers, T. D. Callinan. | | | | |
| U | | | | | |
| 8/51 | | | | | |
| 3838 | A Pulse-Length Discriminator. C. C. Watterson. PB104730, Mi\$2.00, Ph\$2.75. | | | | |
| U | | | | | |
| 7/51 | | | | | |
| 3839 | Impedance Measurements of a Lead-Acid Storage-Battery Cell. J. K. Kluck. PB105059, Mi\$2.00, Ph\$2.75. | | | | |
| U | | | | | |
| 7/51 | | | | | |
| 3840 | The Lubrication of High-Speed Gyros. J. E. Brophy, J. B. Romans. | | | | |
| U | | | | | |
| 8/51 | | | | | |
| 3842 | An Organ Pipe Scanner. K. S. Kelleher, H. H. Hibbe. | | | | |
| U | | | | | |
| 8/51 | | | | | |

- 3843 U Determination of Microwave Atmospheric Absorption Using Extraterrestrial Sources. M. Schulkin. PB105592, Mi\$2.00, Ph\$3.75.
- 3844 U Errors in Altitude Triangulation Caused by Variation in Index of Refraction. R. M. Page. S. F. George. PB126451, Mi\$1.80, Ph\$1.80.
- 3845 U The Spreading of Liquids on Low-Energy Surfaces - II. Modified Tetrafluoroethylene Polymers, Polyethylene, and Paraffin. H. W. Fox, W. A. Zisman. PB105057, Mi\$2.00, Ph\$2.75.
- 3849 U Transformation of Austenite in a Low-Carbon, Nickel-Molybdenum Steel Deposited as Weld Metal. E. F. Bailey, W. J. Harris, Jr. PB105298, Mi\$2.00, Ph\$2.75.
- 3850 U Psychological Studies of Tracking Behavior. Part III. The Characteristics of Quick Manual Corrective Movements Made in Response to Step-Function Velocity Inputs. M. L. Young. PB105299, Mi\$1.50, Ph\$1.50.
- 3851 U Rocket Research Report No. VIII. The Rocket Impact Point Computer. T. A. Bergstrahl. PB129027, Mi\$3.30, Ph\$7.80.
- 3852 U Characteristics of Navy Medium-Weight High-Impact Shock Machine. R. W. Conrad. PB105297, Mi\$2.75, Ph\$6.50.
- 3854 U Rocket Research Report No. IX. The Viking 6 Firings. M. W. Rosen, J. M. Bridger, A. E. Jones. PB129028, Mi\$3.30, Ph\$7.80.
- 3856 U Statistical Characteristics of Sampled and Integrated A-M and F-M Noise. A. D. Watt. PB105594, Mi\$2.25, Ph\$4.00.
- 3857 U Transformation of the Elastic Piezoelectric, and Dielectric Coefficients of Crystals. B. J. Faraday, B. D. Simmons. PB105302, Mi\$2.25, Ph\$4.00.
- 3858 U Total Transmission of the Atmosphere in the Near-Infrared. H. Yates. PB116130, Mi\$2.25, Ph\$4.00.
- 3859 U A Study of the Autoignition Properties of Certain Diesel Fuels. J. E. Johnson, J. W. Crellin, H. W. Carhart. PB106126, Mi\$2.50, Ph\$5.25.
- 3860 U A New Instrument for the Rapid Measurement of Capacitor Temperature Coefficients. J. A. Connor. PB105746, Mi\$2.25, Ph\$5.00.
- 3861 U Optimum Parameters for FSK Radio Teleprinter Systems in the Presence of Thermal Noise. G. B. Gibson.
- 3862 U Geographical Distribution of the Radioactivity of the Atmosphere. I. H. Blifford.
- 3863 U Monitor Tuning Indicators for FSK Reception. C. E. Young. PB105410, Mi\$2.25, Ph\$4.00.
- 3865 U Solubility of Sodium Monoxide and of Sodium Hydroxide in Metallic Sodium. A. D. Bogard, D. D. Williams.
- 3867 U Determination of Hemoglobin Content of Blood by X-Ray Fluorescence. L. S. Birks, E. J. Brooks, R. T. Seal. PB105300, Mi\$1.50, Ph\$1.50.
- 3868 U A Pelletized Lithium Hydroxide Hopper to Remove Carbon Dioxide from Submarine Atmospheres. W. E. McConnaughey, F. J. Woods. PB119778, Mi\$2.40, Ph\$3.30.
- 3869 U On the Control of Magnetic Amplifiers. R. A. Ramey. PB105747, Mi\$2.00, Ph\$2.75.
- 3870 U Preparation of Silicone Compounds for Use in High-Temperature Organic Finishes. W. E. Weaver. PB105748, Mi\$2.25, Ph\$4.00.
- 3871 U A Mischmetal Aluminum Alloy for Elevated Temperature Service. B. M. Loring, W. H. Baer, C. G. Ackerlind. PB105749, Mi\$2.25, Ph\$4.00.
- 3872 U Psychological Studies of Tracking Behavior: Part IV - The Intermittency Hypothesis as a Basis for Predicting Optimum Aided-Tracking Time Constants. L. V. Searle. PB105750, Mi\$2.00, Ph\$2.75.
- 3874 U The Exchange of Water Between Hydrophobic Liquids and Air. J. A. Krynetsky, H. W. Carhart. PB106127, Mi\$2.00, Ph\$2.75.
- 3876 U The Silver-Oxide-Zinc Alkaline Primary Cell. Part 2. Effects of Various Types of Negative Electrodes on Cell Characteristics. C. M. Shepherd. PB129129, Mi\$2.70, Ph\$4.80.
- 3877 U Alkaline Storage Batteries: Factors Affecting the Hydrogen Evolution of Nickel-Iron Batteries While Standing Charged. A. L. Pitman. PB129424, Mi\$2.70, Ph\$4.80.
- 3878 U Battery-Operated Portable Reader for Radiophotoluminescent Glass Dosimeter. C. C. Klick. PB129425, Mi\$1.80, Ph\$1.80.
- 3879 U The Preparation of High Purity Silver Chloride and Silver Bromide. W. Zimmerman, III. PB105595, Mi\$1.50, Ph\$1.50.
- 3880 U Silicon as a Far-Infrared Detector. E. Burstein, J. J. Oberly, J. W. Davison. PB129141, Mi\$3.60, Ph\$9.30.
- 3881 U Alkaline Storage Batteries: A Preliminary Investigation of the Iron-Negative-Plate Characteristics. G. W. Work. PB129426, Mi\$2.40, Ph\$3.30.
- 3882 U Fungus Inhibitive Properties of Organic Compounds. Part IV - Thiocyanacetate and Chloroacetate Esters. J. M. Leonard, V. L. Blackford. PB105593, Mi\$1.50, Ph\$1.50.
- 3883 U Performance Tests on the C. H. Luhrs Microwave Switch. H. W. Herman.

Numerical Index

3884 - 3929

- | | | | | | |
|-------|---|-------|--|-------|--|
| 3884 | A System Using Phase-Modulation Transmission and Single-Sideband Reception for Long-Range Communication. Part I - Phase Modulator. B. Fisk, C. L. Spencer. | 3898 | Disassembly, Relubrication, and Reassembly of 20-MM AN-M2 Feed Mechanism. J. E. Brophy, P. B. Leach, T. M. Thomas. PB105301, Mi\$2.25, Ph\$4.00. | 3917 | Development of the NRL Orcon Tactical Missile Simulator. C. F. White. |
| U | | U | | U | |
| 10/51 | | 10 51 | | 1/52 | |
| 3885 | A Proposed Timing Control and Monitor System for the AN/SPS-2 Radar. R. E. Ellis. | | | 3918 | Corrosion of Brass-Retainer Ball Bearings. H. R. Baker. PB106132, Mi\$1.50, Ph\$1.50. |
| U | | | | U | |
| 11/51 | | | | 12/51 | |
| 3886 | Microwave Instrumentation for Multifrequency Attenuation Measurements Through Propellant Gases. W. W. Balwanz, G. D. Morehouse, J. M. Headrick. PB129142, Mi\$3.30, Ph\$7.80. | | | | |
| U | | | | | |
| 2/52 | | | | | |
| 3887 | Reaction Time to Kinesthetic Stimulation Resulting from Sudden Arm Displacement. R. Chernikoff, F. V. Taylor. PB106128, Mi\$2.00, Ph\$2.75. | | | | |
| U | | | | | |
| 11/51 | | | | | |
| 3888 | An Automatic Antenna Tuner for a 35-foot Whip Antenna. V. True. PB106129, Mi\$2.00, Ph\$2.75. | | | | |
| U | | | | | |
| 11/51 | | | | | |
| 3890 | An Amplitude-Distribution Analyzer. A. M. King. PB129143, Mi\$2.70, Ph\$4.80. | | | 3922 | Characteristics of the Light Weight High-Impact Shock Machine. R. W. Conrad. PB106318, Mi\$2.50, Ph\$5.25. |
| U | | | | U | |
| 12/51 | | | | 1/52 | |
| 3891 | Synthesis and Characterization of Esters and Ethers for Non-spreading Lubricants. J. G. O'Rear. PB106130, Mi\$2.00, Ph\$2.75. | 3907 | Logarithmic Attenuator. S. Ratner. PB106745, Mi\$1.50, Ph\$1.50. | 3923 | Series-Connected Magnetic Amplifier with Inductive Loading. T. G. Wilson. PB106133, Mi\$2.25, Ph\$4.00. |
| U | | U | | U | |
| 12/51 | | 4/52 | | 1/52 | |
| 3892 | Dual-Crystal Operation for Improved Frequency Stability with Varying Temperature. D. A. Venn, G. W. Arnold, Jr. PB106655, Mi\$2.00, Ph\$2.75. | 3908 | Measuring the Shielding Efficiency of Screened Enclosures. H. E. Dinger, J. E. Raudenbush. PB106317, Mi\$1.75, Ph\$2.50. | 3924 | Infrared Spectra of Fluorinated Hydrocarbons. D. C. Smith, M. Alpert, R. A. Saunders, G. M. Brown, N. B. Moran. PB106319, Mi\$4.00, Ph\$11.50. |
| U | | U | | U | |
| 11/51 | | 11/51 | | 2/52 | |
| 3894 | Solubility of Oxygen in Potassium Metal and Sodium-Potassium Alloys. D. D. Williams. PB120353, Mi\$2.40, Ph\$3.30. | 3909 | Rocket-Borne Instrumentation for Ionosphere Propagation Experiments. J. E. Jackson. PB106131, Mi\$2.75, Ph\$6.50. | | |
| U | | U | | | |
| 12/51 | | 1/52 | | | |
| 3895 | The Behavior of the Klystron Amplifier as an Electronic Phase-Shifting Element. I. D. Olin. PB129144, Mi\$2.40, Ph\$3.30. | 3910 | Frequency Analysis of Some Closed-Cycle Sampled-Data Control Systems. B. H. Stafford. PB125857, Mi\$2.70, Ph\$4.80. | | |
| U | | U | | | |
| 11/51 | | 1/52 | | | |
| 3897 | The Electrolytic Separation of Lithium Isotopes from Molten Salt. J. I. Hoover, G. E. Holloway. PB129427, Mi\$1.80, Ph\$1.80. | 3911 | High Power Waveguide Loads Utilizing Harp Material. A. L. Pranta, W. H. Emerson. | 3927 | A High-Resolution High-Intensity-Scintillation Detector. W. C. Hall, B. M. Horton, J. W. Keller, S. H. Liebson. PB111281, Mi\$2.00, Ph\$2.75. |
| U | | U | | U | |
| 11/51 | | 12/51 | | 1/52 | |
| | | | | | |
| | | | | 3928 | Radio-Frequency Mass Spectrometer for Upper Air Research. J. W. Townsend, Jr. PB106320, Mi\$1.50, Ph\$1.50. |
| | | | | U | |
| | | | | 1/52 | |
| | | | | 3929 | Noise in Tracking Radars. Part II - Distribution Functions and Further Power Spectra. A. E. Hastings, J. E. Meade, H. L. Gerwin. |
| | | | | U | |
| | | | | 1/52 | |

- | | | | | | |
|------|--|-------|--|------|---|
| 3930 | Insensitivity of Infrared Detection Using Temperature Sensitive Phosphors. C. C. Klick, J. H. Schulman. PB106321, Mi\$1.50, Ph\$1.50. | 3945 | The Effect of Core Materials on Magnetic Amplifier Circuits. L. J. Johnson. PB106566, Mi\$1.50, Ph\$1.50. | | |
| U | | U | | | |
| 1/52 | | 2/52 | | | |
| 3932 | Oxidation Characteristics of Some Diester Fluids. C. M. Murphy, H. Ravner. PB106291, Mi\$1.50, Ph\$1.50. | 3946 | Rocket Research Report No. X. The Viking 7 Firings. M. W. Rosen, J. M. Bridger, A. E. Jones. PB129029, Mi\$3.30, Ph\$7.80. | 3961 | Measurement of Air Flow Through an Aircraft Generator During Flight, Part I; Installation and Calibration of Instrumentation System. J. M. Marzolf. PB106715, Mi\$2.25, Ph\$4.00. |
| U | | U | | U | |
| 1/52 | | 3/52 | | 4/52 | |
| 3933 | A Preliminary Survey of Fuel-Oil Slagging Problems. R. M. Roe. PB129145, Mi\$2.70, Ph\$4.80. | 3947 | Doppler Control of Ejection-Type Emergency Barrier. E. S. Van Valkenburg, J. C. Schaffert. PB129146, Mi\$3.00, Ph\$6.30. | 3962 | Wet-Storage Tests on Lead Acid Cells. J. J. Lander. PB106639, Mi\$1.50, Ph\$1.50. |
| U | | U | | U | |
| 3/52 | | 3/52 | | 4/52 | |
| 3935 | A Study of Navy Radio Receivers in a Tropical Climate. K. G. Williams, C. T. Lempke. PB106322, Mi\$2.25, Ph\$4.00. | 3949 | A Recording Atmospheric Transmissometer. C. A. Pearson. PB106567, Mi\$2.00, Ph\$2.75. | | |
| U | | U | | | |
| 2/52 | | 3/52 | | | |
| 3936 | Current and Temperature Rise in Aircraft Cables, Part II: Uniform Bundles Under Steady-State Conditions. M. Schach, R. E. Kidwell, Jr. PB106610, Mi\$2.25, Ph\$4.00. | 3950 | Spreading of Liquids on Low Energy Surfaces. V. Solids Coated with a Monolayer of Perfluorodecanoic Acid. F. Schulman, W. A. Zisman. PB106713, Mi\$2.50, Ph\$5.25. | 3965 | Theory and Problems of Radar Visibility, Intensity-Modulated Scopes. C. T. Morgan. PB129145, Mi\$2.70, Ph\$4.80. |
| U | | U | | U | |
| 3/52 | | 4/52 | | 4/52 | |
| 3940 | Investigation of the Phenolic Fraction of Cresote. T. R. Sweeney, C. R. Walter, Jr. PB106763, Mi\$2.00, Ph\$2.75. | 3951 | Transient Response of a Cathode Follower. S. Rattner, R. C. Waddel. PB106675, Mi\$2.00, Ph\$2.75. | 3966 | The Critical Range for Micelle Formation by an Oil-Dispersible Soap in a Hydrocarbon Solvent. S. Kaufman, C. R. Singleterry. PB106733, Mi\$2.00, Ph\$2.75. |
| U | | U | | U | |
| 2/52 | | 4/52 | | 4/52 | |
| 3941 | Subgrain Structure in Lead and Lead-Antimony Alloys. A. C. Simon, J. B. Burbank. PB106611, Mi\$2.25, Ph\$4.00. | 3952 | Distortion of Transients in the Cylindrical Ion Chamber. A. J. Rublig. PB106766, Mi\$1.50, Ph\$1.50. | | |
| U | | U | | | |
| 3/52 | | 4/52 | | | |
| 3943 | Longer Delays from Fused-Quartz Delay Lines by Multiple Passage Techniques. R. E. Ellis. | 3953 | High Impedance Chambers. D. S. Toffolo. PB106624, Mi\$1.50, Ph\$1.50. | | |
| U | | U | | | |
| 3/52 | | 3/52 | | | |
| | | 3954 | A New High-Speed Cathode-Ray Tube. H. J. Peake, R. W. Rochelle. PB106746, Mi\$2.00, Ph\$2.75. | | |
| | | U | | | |
| | | 4/52 | | | |
| | | 3955 | Correction of Electrostatic-Deflection Cathode-Ray-Tube Recordings to Obtain Actual Signal Input. H. J. Peake, R. W. Rochelle. PB111089, Mi\$2.25, Ph\$4.00. | | |
| | | U | | | |
| | | 12/52 | | | |
| | | 3957 | A Virtual Source Scanner. K. S. Kelleher. PB106714, Mi\$2.25, Ph\$4.00. | 3971 | High-Temperature Lubrication of Electric Motor Ball Bearings. J. E. Brophy, J. Larson, C. R. Singleterry, W. A. Zisman. PB111015, Mi\$4.00, Ph\$11.50. |
| | | U | | U | |
| | | 4/52 | | 5/52 | |
| | | 3958 | Measurements of Some Low- and Very Low-Frequency Atmospheric Noise in the Alaskan Area. H. E. Dinger, W. E. Garner, G. E. Leavitt. PB106782, Mi\$2.25, Ph\$4.00. | | |
| | | U | | | |
| | | 4/52 | | | |
| | | | | 3973 | Application of the Franck-Condon Principle to Complex Systems. M. Lax. PB111016, Mi\$2.25, Ph\$4.00. |
| | | | | U | |
| | | | | 6/52 | |

- | | | | | | |
|------|---|------|--|------|--|
| 3979 | A Low-Noise Wide-Band 200-MC Insertion Amplifier.
U
5/52 R. Lowell.
PB111012, Mi\$1.50, Ph\$1.50. | 3992 | Upper Atmosphere Research Report No. XV; AN/FKR-1 ()
U
5/52 Telemetering Ground Station Improvement Program.
N. R. Best.
PB126509, Mi\$2.70, Ph\$4.80. | 4005 | The Electrical Properties of the Inorganic Papers.
U
6/52 T. D. Callinan.
PB111017, Mi\$1.50, Ph\$1.50. |
| 3981 | Double Curvature Reflectors for Beam Shaping with Quasi-Point-Source Feed.
U
5/52 A. E. Marston.
PB124258, Mi\$2.40, Ph\$3.30. | 3993 | Daytime Measurement of Atmospheric Transmission of Light.
U
7/52 C. A. Pearson.
PB108570, Mi\$1.75, Ph\$2.50. | 4006 | Lead Networks Utilizing a Saturable Core Memory.
U
7/52 D. G. Scorgie.
PB111022, Mimeo\$.50. |
| 3984 | On the Exchange of Radiant Energy between the Earth and the Sky. C. P. Butler.
U
6/52 PB111013, Mi\$2.00, Ph\$2.75. | 3994 | Preparation of Silicone Compounds for Use in High-Temperature Organic Finishes - II.
U
6/52 H. J. E. Segrave.
PB111018, Mi\$2.25, Ph\$4.00. | 4007 | A System Using Phase-Modulation Transmission and Single-Sideband Reception for Long-Range Communication, Part II - Single-Sideband Receiver. B. Fisk, C. L. Spencer. |
| 3985 | Arbitrarily Polarized Antennas for X-, S-, and L-Bands.
U
5/52 A. J. Simmons, H. N. Chait.
PB123146, Mi\$2.40, Ph\$3.30. | 3995 | Pinic Acid Diesters; Their Preparation, Properties, and Lubricant Applications.
U
6/52 C. M. Murphy, J. G. O'Rear, W. A. Zisman.
PB111019, Mi\$2.25, Ph\$4.00. | 4008 | Development of the NRL Axial-Flow Vortex Thermometer.
U
9/52 R. E. Ruskin, R. M. Schecter, J. E. Dinger, R. D. Merrill.
PB111055, Mi\$2.50, Ph\$5.25. |
| 3986 | An S-Band Sweep Generator and Test Set. J. H. Kluck.
U
4/52 PB129428, Mi\$1.80, Ph\$1.80. | 4010 | Polyorganosiloxanes, Organosilanes, and Orthosilicate Esters as Antioxidants.
U
7/52 V. G. Fitzsimmons, R. L. Merker, W. A. Zisman.
PB111031, Mi\$2.00, Ph\$2.75. | 4011 | The Dual-Input Parallel-T Network.
U
7/52 C. F. White, K. A. Morgan.
PB111032, Mi\$2.00, Ph\$2.75. |
| 3987 | Cure Studies of Some Aromatic Aldehyde-Amines in GR-8.
U
4/52 W. B. Shetterly, U. E. Hanninen.
PB111002, Mi\$2.00, Ph\$2.75. | 3998 | Harmonic Distortion in Amplifiers. S. R. Swanson,
U
6/52 W. G. Long, Jr. | 4013 | Pulsed Geiger Tube Operation.
U
7/52 S. W. Lichtman.
PB111035, Mi\$2.00, Ph\$2.75. |
| 3989 | A Microwave Schmidt System.
U
5/52 H. N. Chait.
PB111014, Mi\$2.00, Ph\$2.75. | 3999 | Television Recording Project.
U
9/52 M. F. Hodges.
PB111972, Mi\$2.50, Ph\$5.25. | 4014 | A Method of Isolating Receiver and Transmitter Using Ferrites.
U
7/52 J. W. Bryan. |
| | | 4001 | A New Electrochemical Recorder Paper. E. J. Kohn,
U
7/52 D. L. Venesky, R. G. Rice, F. J. Ross, G. F. Asbury, Sr.
PB111021, Mi\$2.00, Ph\$2.75. | 4015 | Resonance Absorption of Microwaves by Paramagnetic Substances.
U
9/52 C. Kikuchi, W. W. Wada. |
| | | 4002 | The Velocity of Sound in Sea Water at Zero Depth.
U
6/52 V. A. Del Grosso.
PB111024, Mi\$2.75, Ph\$6.50. | 4016 | Upper Atmosphere Research Report No. XVI. The AN/DKT-7() 15-Channel PPM Telemetering Transmitter. N. R. Best, R. Lowell, D. G. Masur, K. M. Uglow.
U
8/52 PB111050, Mi\$2.50, Ph\$5.25. |
| | | | | 4018 | Stabilizing Elements in Aircraft DC Systems. D. G. Scorgie,
U
8/52 D. H. Schaefer.
PB111041, Mi\$2.25, Ph\$4.00. |

- 4019 The Electrical Properties of
U Pentachlorodiphenyl-Impregnated
7/52 Glass Fiber Paper.
T. D. Callinan.
PB111030, Mi\$2.00, Ph\$2.75.
- 4022 An Improved Grease Lubricant
U for Focusing Mechanisms in
8/52 Optical Equipment. P. B. Leach,
J. B. Romans, C. R. Singleterry.
- 4023 Antifriction Bearings as a Radio
U Noise Source. H. E. Dinger,
7/52 J. E. Raudenbush.
PB111034, Mi\$2.00, Ph\$2.75.
- 4024 Upper Atmosphere Research Report
U No. XVII - A Solar Aspect
9/52 Indicator for a Rocket.
D. M. Packer, R. Tousey.
PB111056, Mi\$2.00, Ph\$2.75.
- 4025 Operation of the Turbojet Thrust
U Computer under Extended Ranges
8/52 of Thermodynamic Parameters.
N. W. Matthews.
PB111042, Mi\$2.00, Ph\$2.75.
- 4026 The Traveling-Wave Tube as a
U Phase-Shifter. I. D. Olin.
7/52 PB111036, Mi\$1.50, Ph\$1.50.
- 4027 Modes in Waveguides That Contain
U Ferrites. M. L. Kales.
8/52 PB111038, Mi\$2.00, Ph\$2.75.
- 4029 Aircraft AC Power Systems.
U Part I, Ground-Fault Protection
8/52 for the Generator and Generator
Feeders. W. M. Tucker,
M. Trbovich, L. R. Larson.
- 4030 The Single-Core Magnetic
U Amplifier as a Computer Element.
8/52 R. A. Ramey.
PB111033, Mi\$2.00, Ph\$2.75.
- 4031 Horizontal Attenuation of Ultra-
U Violet and Visible Light by the
9/52 Lower Atmosphere.
L. Dunkelman.
PB111057, Mi\$2.25, Ph\$4.00.
- 4032 Frequency Accuracy of High-
U Frequency Shipboard Radio
8/52 Transmission Systems.
J. D. Wallace.
- 4034 Use and Interpretation of the NRL
U Explosion Bulge Test.
9/52 W. S. Pellini.
PB111060, Mi\$2.25, Ph\$4.00.
- 4035 Strontium-90 as a Replacement
U for Radium in Deck and Personnel
9/52 Markers. G. T. Hicks,
E. B. Beggs, L. H. Dawson.
PB111068, Mi\$2.00, Ph\$2.75.
- 4036 On the Natural Radioactivity in
U the Air. I. H. Blifford,
9/52 L. B. Lockhart, Jr.,
H. B. Rosenstock.
- 4037 Intermodulation Distortion in
U Amplifiers.
9/52 S. R. Swanson.
- 4042 The Electrical Properties of
U Glass Fiber Paper - II.
10/52 T. D. Callinan, R. T. Lucas.
PB111310, Mi\$2.25, Ph\$4.00.
- 4043 Side-Lobe Conference.
U PB111076, Mi\$2.75, Ph\$6.50.
4/52
- 4044 The Manufacture and Properties
U of Paper Made from Ceramic
10/52 Fibers. T. D. Callinan,
R. T. Lucas.
PB111075, Mi\$1.50, Ph\$1.50.
- 4048 Measurement of Air Flow
U Through an Aircraft Generator
9/52 During Flight, Part II -
Analysis of Flight Test Data
for F7F-3 Aircraft.
J. M. Marzoff, D. Friedman.
PB111069, Mi\$2.00, Ph\$2.75.
- 4049 Colloquium on Transistors in
U Theory and Practice. E. Burstein,
5/52 E. Toth, D. Gridley, A. Schooley.
PB111086, Mi\$2.50, Ph\$5.25.
- 4051 The AN/APN-67 Automatic
U Navigator. E. F. McClain,
10/52 R. C. Giles, D. L. Dewey,
W. R. Ferris.
- 4062 Dosimetry of Ionizing Radiations
U by Means of Color Centers in
10/52 Sensitized Alkaline-Earth Salts.
J. H. Schulman,
R. J. Gunther, R. D. Kirk.
PB111074, Mi\$2.00, Ph\$2.75.
- 4064 The Electrical Properties of
U Silica Fiber Paper.
10/52 T. D. Callinan, R. T. Lucas.
PB111077, Mi\$2.00, Ph\$2.75.
- 4065 Surface Structure of Quartz
U Crystals. G. W. Arnold, Jr.
10/52 PB111084, Mi\$2.00, Ph\$2.75.
- 4066 Further Research on Aliphatic
U Esters: Properties and
12/52 Lubricant Applications.
G. Cohen, C. M. Murphy,
J. G. O'Rear, H. Ravner,
W. A. Zisman.
PB111098, Mi\$2.25, Ph\$5.25.

- | | | | | | |
|--------------------|---|--------------------|---|-------------------|---|
| 4068
U
10/52 | Factors Affecting the Use of a Smoke Lamp for Evaluating Jet Fuels. J. A. Krynskiy, W. D. Garrett, C. A. McLean. PB115348, Mi\$2.00, Ph\$2.75. | 4083
U
1/53 | Lattice Dynamics of Body-Centered and Face-Centered Cubic Metallic Elements. J. deLaunay. PB111107, Mi\$2.50, Ph\$5.25. | 4098
U
2/53 | Frequency Spectra and Fault Transients of a DC Generator. D. H. Schaefer. PB111170, Mi\$2.25, Ph\$4.00. |
| 4069
U
10/52 | The Collection of Long-Lived Natural Radioactive Products from the Atmosphere. P. King, L. B. Lockhart, Jr., R. A. Baus, R. L. Patterson, Jr., H. Friedman, I. H. Blifford, Jr. PB111078, Mi\$2.00, Ph\$2.75. | 4085
U
1/53 | A Ratio Quantizer. A. M. King, J. T. McLane, C. G. Myers. PB115041, Mi\$3.25, Ph\$9.00. | 4100
U
1/53 | Resistance-Capacitance Shunted High-Pass Network Synthesis. C. F. White. PB111108, Mi\$2.00, Ph\$2.75. |
| 4070
U
10/52 | A Direct-Reading Four-Decade Divider. J. E. McGeogh, G. K. Jensen. PB111087, Mi\$2.25, Ph\$4.00. | 4086
U
12/52 | An Injection Method for Measurement of Ignition Delays of Hypergolic Liquid-Pairs. R. N. Hazlett, J. P. Redmond. | 4102
U
2/53 | Methods for Predicting Steady-State Performance in Unbalanced Regulated Three-Phase Generators. B. J. Wilson. PB111161, Mi\$2.25, Ph\$4.00. |
| 4071
U
10/52 | A Broad-Band Axially Symmetric Vertex Feed. F. L. Hennessey. PB111079, Mi\$2.00, Ph\$2.75. | 4088
U
12/52 | Off-Axis Characteristics of the Paraboloidal Reflector. K. S. Kelleher, H. P. Coleman. PB111099, Mi\$2.75, Ph\$6.50. | 4103
U
1/53 | A Technique for Measuring the Effectiveness of Various Shielding Materials. H. E. Dinger, J. E. Raudenbush. PB111109, Mi\$2.00, Ph\$2.75. |
| 4075
U
11/52 | Charging Procedures for Submarine Storage Batteries. E. E. Nelson, I. M. Paige, J. J. Lander. | 4089
U
2/53 | The Silver Oxide - Zinc Alkaline Primary Cell. Part III. Cell Design. C. M. Shepherd. PB129139, Mi\$3.80, Ph\$9.30. | 4105
U
2/53 | Orcon, Part IV. Simulated Flight Tests. E. P. Newin, Jr., F. V. Taylor, C. L. Tipton. |
| 4076
U
11/52 | Air Temperature Near a Rocket Motor Exhaust Flame. W. W. Balwanz, F. E. Wyman. | 4094
U
1/53 | Thermal Noise in Vacuum Tube Amplifiers. W. G. Long, Jr., F. X. Urrico. PB111145, Mi\$2.00, Ph\$2.75. | 4107
U
2/53 | Time Signal Set AN/USQ-5 (XB-1). T. O. Moore, R. D. Misner. |
| 4077
U
11/52 | Gain of Electromagnetic Horns. E. H. Braun, W. T. Slayton. PB111085, Mi\$2.00, Ph\$2.75. | | | 4108
U
2/53 | An Electronic Chronograph. W. E. Leavitt. |
| 4078
U
11/52 | Positive-Grid Corrosion in the Lead-Acid Cell: Corrosion Rates of Tin Alloys and the Effect of Acid Concentration on Corrosion. J. J. Lander, J. B. Burbank. PB111088, Mi\$2.25, Ph\$4.00. | | | 4110
U
2/53 | An Extension of the Luneberg-Type Lenses. J. E. Eaton. PB111147, Mi\$2.00, Ph\$2.75. |
| 4080
U
11/52 | Present Problems and Future Trends in Lubrication. W. A. Zisman. PB111118, Mi\$2.25, Ph\$4.00. | | | 4111
U
3/53 | Portable Precision Frequency Meter, Part III - Simplified Direct-Reading Meter. G. K. Jensen, J. E. McGeogh. PB111182, Mi\$2.25, Ph\$4.00. |
| | | | | 4112
U
3/53 | The Photographic Recording of High-Speed Cathode-Ray Oscilloscope Traces. H. J. Peake. PB111160, Mi\$2.25, Ph\$4.00. |

4114	Hoop Stresses Produced in Curved Tubes by in-Plane Bending Moments. T. E. Pardue. PB111171, Mi\$1.50, Ph\$1.50.	4129	Proposal for NRL Research Reactor. E. H. Krause.	4143	A Junction Triode Transistor Experimental Test Set. W. N. Keller. PB111173, Mi\$2.00, Ph\$2.75.
2/53		U		U	
4115	A Two-Dimensional Microwave Luneberg Lens. G. D. M. Peeler, D. H. Archer. PB111153, Mi\$2.25, Ph\$4.00.	4131	The Solubility of Iron in Sodium Metal, Sodium-Sodium Oxide, and Sodium-Sodium Oxide-Sodium Hydroxide. A. D. Bogard. PB111180, Mi\$2.00, Ph\$2.75.	4145	Penetration of Gamma Radiation Through Iron. L. A. Beach, R. B. Theus, W. R. Faust. PB114685, Mi\$2.00, Ph\$2.75.
3/53		U		U	
4116	A Thermal Radiation Calorimeter. H. S. Stewart, G. L. Knestrick, A. G. Rockman, A. Santilli, L. F. Drummeter, Jr.	3/53		4/53	
U		4133	A Three-Level Capillary Viscometer for the Study of Anomalous Flow in Sealed Systems. J. G. Hong, C. R. Singleterry. PB111181, Mi\$2.00, Ph\$2.75.	4146	Measurement of Penetration and Scattering of Radiation Aboard USS Randolph. L. A. Beach, R. B. Theus, W. R. Faust.
2/53		U		U	
4117	Propagation of Electromagnetic Waves in an Inhomogeneous, Isotropic Medium Above a Plane Boundary. L. G. McCracken, Jr. PB111189, Mi\$2.25, Ph\$4.00.	4/53		4/53	
U		4134	Investigation of the Graphochron Storage Tube. G. K. Jensen, C. L. Uniacke.	4148	Optimum Parameters for FSK Radio Teleprinter Systems in the Presence of Impulse Interference. F. C. Kahler, J. F. Martin.
2/53		U		U	
4118	The Radioactivity of the Atmosphere. I. H. Blifford.	5/53		5/53	
U		4136	Laboratory Tests of Some of the Popular Audio Amplifiers. T. O. Dixon.	4151	A Large Displacement-Amplitude Vibration Machine for Physiological Applications. H. M. Forkois, R. W. Conrad. PB111216, Mi\$2.25, Ph\$4.00.
4/53		U		U	
4119	Some Behavioral Implications of Information Theory. G. K. Krulee, E. J. Sinclair. PB114723, Mi\$2.00, Ph\$2.75.	4/53		6/53	
U		4137	Darkflex - A Fibrous Microwave Absorber. H. A. Tanner, A. G. Sands, M. V. McDowell. PB130312, Mi\$2.40, Ph\$3.30.		
2/53		U			
4121	Flammability Limits for Mixtures of Hydrocarbon Fuels, Air, and Halogen Compounds. H. E. Moran, Jr., A. W. Bertschy. PB111154, Mi\$2.00, Ph\$2.75.	4/53			
U		4138	The Development of a New "Jeep-Class" Foam Fire-Fighting Vehicle. R. L. Tuve, R. R. Neill, H. B. Peterson, E. J. Jablonski, J. C. Burnett, R. L. Gipe, J. W. Porter. PB111175, Mi\$2.25, Ph\$4.00.		
2/53		U			
4122	Cancelled, see NRL 4984.	5/53			
4125	Tube Reliability: One Important Aspect. B. Salzberg.	4139	Rotating Beam Deflection Studies. J. B. Tiedemann, I. Vigness, T. E. Pardue. PB111183, Mi\$2.00, Ph\$2.75.		
U		U			
3/53		5/53			
4127	Strength Loss of Box Beams Due to Fragment Impact. C. H. Kingsbury, R. L. Kahler.	4140	Current Status of Quartz Crystal Units and Circuitry for Frequency Control. D. A. Venn. PB111176, Mi\$2.50, Ph\$5.25.		
U		U			
5/53		5/53			
		4141	A New Microwave Reflector. K. S. Kelleber, H. H. Hibbs. PB111178, Mi\$2.25, Ph\$4.00.		
		U			
		4142	Current and Temperature Rise in Aircraft Cables, Part III - Continuous Current Capacity of Cables in Bundles Composed of One or More Cable Sizes. M. Schach, L. D. Schroeder. PB111179, Mi\$2.50, Ph\$5.25.	4160	Styroflex Coaxial Cable. G. M. Dinnick, J. K. Burton, J. R. Ambrose. PB111269, Mi\$2.25, Ph\$4.00.
		U		U	
		4/53		10/53	

Numerical Index

4161 - 4207

- | | | | | | |
|------|--|------|--|------|--|
| 4161 | Cancelled. | 4177 | The Physical-Chemical Behavior of Oil-Dispersible Soap Solutions. I. Sodium Phenylstearate in Benzene. J. G. Honig, C. R. Singleterry. PB111205, Mi\$2.00, Ph\$2.75. | 4192 | Visibility and Suggested Military Uses at Night of Self-Luminous Markers Excited by Strontium-90. G. T. Hicks, C. M. Whitfield, Jr., L. H. Dawson. |
| 4162 | Instruction Book for Time Standard AN/FSM-5A. U
8/53 P. P. Bey, H. F. Hastings. | 4179 | Damages Resulting from Laboratory Vibration and High-Impact Shock Tests. K. E. Woodward. PB111229, Mi\$2.50, Ph\$5.25. | 4193 | An Anechoic Chamber Making Use of a New Broadband Absorbing Material. A. J. Simmons, W. H. Emerson. PB111206, Mi\$2.00, Ph\$2.75. |
| 4164 | Supplement to Proposal for NRL Research Reactor. U
5/53 E. H. Krause. PB153012, Mi\$4.80, Ph\$13.80. | 4182 | A Fluorescence Method for the Detection of JP-5 in Avgas. U
6/53 J. E. Johnson. | 4194 | Virtual Source Luneberg Lenses. U
7/53 G. D. M. Peeler, K. S. Kelleher, H. P. Coleman. PB111221, Mi\$1.50, Ph\$1.50. |
| 4165 | Effect of Angle of Incidence Upon Penetration of Gamma Radiation. E. H. Bebbs, R. H. Vogt, W. R. Faust. PB111150, Mi\$2.00, Ph\$2.75. | 4186 | Cornell Valveless Pulsejet Engine Tests and Further Developments. C. D. Porter. U
8/53 PB111222, Mi\$2.25, Ph\$4.00. | 4196 | A Statistical Ray Theory of Sound Propagation in Oceanic Isothermal Surface Layers. U
7/53 J. G. Parker, R. W. Bryant. |
| 4166 | Cancelled. | 4188 | Measurement of Organic Fluorescence Decay Times. U
7/53 C. F. Ravilious, R. T. Farrar, S. H. Liebson. PB111204, Mi\$1.50, Ph\$1.50. | 4197 | Gamma Radiation from Interaction of 14-Mev Neutrons with Various Elements. V. E. Scherrer, R. B. Theus, W. R. Faust. PB111462, Mi\$2.25, Ph\$4.00. |
| 4167 | Frictional Behavior of Polyethylene, Polytetrafluoroethylene, and Halogenated Derivatives. R. C. Bowers, W. C. Clinton, W. A. Zisman. PB111185, Mi\$2.25, Ph\$4.00. | 4189 | Potential Inside a Geiger Tube. U
6/53 H. B. Rosenstock, N. M. Gailar. PB111213, Mi\$1.50, Ph\$1.50. | 4198 | Gamma Radiation from Interaction of 14 Mev Neutrons with Beryllium and Uranium. V. E. Scherrer, R. B. Theus, W. R. Faust. |
| 4168 | Application of a Three-Phase Motor to Servomechanisms. U
5/53 J. E. Hart. PB111184, Mi\$2.50, Ph\$5.25. | 4191 | Materials Suitable for Sound Applications I. Ultrasonic Velocities and Impedances of Selected Liquids. U
9/53 V. A. Del Grosso, E. J. Smura. PB111234, Mi\$2.75, Ph\$6.50. | 4200 | A Bench-Type Signal Tracer. U
8/53 J. A. Murray. PB111230, Mi\$2.25, Ph\$4.00. |
| 4169 | Rocket Research Report No. XII - The Viking 8 Firing. U
7/53 M. W. Rosen, J. M. Bridger, A. E. Jones. PB129121, Mi\$3.60, Ph\$9.30. | 4192 | Ignition Studies. Part II - The Spontaneous Ignition Properties of Some Diesel Fuels and Pure Hydrocarbons. J. E. Johnson, J. W. Crellin, H. W. Carhart. U
7/53 PB111215, Mi\$2.00, Ph\$2.75. | 4201 | A Submarine-Launched Flashing-Light Buoy. U
9/53 J. W. Tucker. |
| 4171 | Linear Frequency-Discriminator Design Utilizing Parallel-T-Networks. P. T. Sune. U
6/53 PB111217, Mi\$2.25, Ph\$4.00. | 4203 | The Graphcon Storage Tube for Weapons Evaluation. U
7/53 R. V. Talbot, L. M. Johnson. | 4204 | An Automatic Impedance Recorder for X-Band. W. F. Gabriel. U
8/53 PB111231, Mi\$2.50, Ph\$5.25. |
| 4172 | Flux-Preset High-Speed Magnetic Amplifiers. C. B. House. U
6/53 PB111189, Mi\$2.00, Ph\$2.75. | 4205 | Fast Response with Magnetic Amplifiers. D. G. Scorgie. U
7/53 PB111212, Mi\$2.00, Ph\$2.75. | 4206 | Cancelled. |
| 4174 | A Magnetic Amplifier for Synchros. R. L. Van Allen. U
6/53 PB111218, Mi\$2.00, Ph\$2.75. | 4206 | Cancelled. | 4207 | Cancelled. |
| 4175 | All-Weather Lubrication of the 20 MM M-3 Aircraft Machine Gun and Accessories. U
5/53 H. R. Baker, J. E. Brophy, V. G. Fitzsimmons, P. B. Leach, C. M. Murphy, J. G. O'Rear, C. R. Singleterry, T. M. Thomas, W. A. Zisman. | | | | |
| 4176 | Preparation of Reproducible Barium Titanate Ceramics. U
6/53 R. M. Callahan, J. F. Murray. PB111188, Mi\$1.50, Ph\$1.50. | | | | |

4210 First Interim Report on Evaluation
U of Cathodic Protection on Texas
7/53 Group Reserve Fleet Vessels.
L. J. Waldron,
R. L. Benedict.
PB110701, Mi\$2.25, Ph\$5.00.

4215 Shear Stresses in Curved Tubes.
U T. E. Pardue.
10/53 PB111249, Mi\$2.00, Ph\$2.75.

4217 A Radio-Frequency Circuit for
U Use in the 300 to 1000 Mc Range.
8/53 F. C. Isely.
PB111232, Mi\$2.00, Ph\$2.75.

4218 Dielectric Quarter-Wave and
U Half-Wave Plates in Circular
11/53 Waveguide. R. M. Brown,
A. J. Simmons.
PB111271, Mi\$2.25, Ph\$4.00.

4219 Stability of Hydrazine in
U Liquid Ammonia.
9/53 J. A. Krynitaky, H. W. Carhart.
PB126600, Mi\$2.40, Ph\$3.30.

4220 Improvement of Keyer Perform-
U ance in AN/URA-6 Frequency-
9/53 Shift Converter.
J. J. Over.

4221 Radioactive Hailstones.
U I. H. Blifford, R. L. Patterson, Jr.,
7/53 L. B. Lockhart, Jr.,
R. A. Baus.

4228 Fungicide Attenuation by Oils.
U J. M. Leonard, H. L. Larson.
10/53 PB111250, Mi\$1.50, Ph\$1.50.

4230 R-F Impedance Bridges for
U Military Use. J. A. Connor,
11/53 D. I. Troxel.

4236 Distortion Reduction in Amplifiers.
U S. R. Swanson.
10/53 PB111302, Mi\$2.00, Ph\$2.75.

4239 A Laboratory Evaluation of Low-
U Temperature Lubricants for
11/53 Automotive and Diesel Equipment.
G. Cohen, C. Lamb,
C. M. Henderson, C. M. Murphy.

4241 Rapid Measurement of Impedance
U and Admittance.
12/53 B. Salzberg, J. W. Marini.
PB111309, Mi\$2.00, Ph\$2.75.

4242 An Improved Cellulose Caprate
U Optical Cement. D. E. Field.
11/53 PB111273, Mi\$3.00, Ph\$7.75.

4243 Measurement of a Time Varying
U Complex Propagation Constant
1/54 in the Microwave Region.
D. L. Fye, H. H. Grimm.

4244 A Comparative Study of the
U Theoretical Errors Associated
6/54 with Attenuation Measurements.
D. L. Fye, B. N. Navid.

4245 Television Recording System.
U A. R. Glorioso, D. E. Koten.
12/53 PB111307, Mi\$2.25, Ph\$4.00.

4246 Upper Atmosphere Research
U Report XVIII - A Method for
10/53 Determining Density in the
Upper Atmosphere During
Rocket Flight. R. Horowitz,
D. Kleitman.
PB114748, Mi\$2.00, Ph\$2.75.

4247 Upper Atmosphere Research
U Report No. XIX - A Geomagnetic
11/53 Field Angular Orientation
Indicator for a Rocket.
D. M. Packer.
PB111279, Mi\$2.00, Ph\$2.75.

4248 Some Spectroscopic Studies of
U Rotational Isomerism.
11/53 R. E. Kagarise, L. W. Daasch.
PB111270, Mi\$2.00, Ph\$2.75.

4249 Probing into Cool Flames -
U Part I - Sampling Studies.
12/53 K. G. Williams, J. E. Johnson,
H. W. Carhart.
PB111311, Mi\$2.00, Ph\$2.75.

4251 A Static Exciter for Aircraft AC
U Generators. D. G. Scorgie.
11/53 PB111280, Mi\$2.00, Ph\$2.75.

4252 Gamma Radiation from Interaction
U of 3.3 Mev Neutrons with Lead.
10/53 V. E. Scherrer, B. A. Allison,
W. R. Faust.
PB111252, Mi\$1.50, Ph\$1.50

4253 Characteristics of Pipe Bends
U Under Applied Moments -
12/53 Summary Report.
T. E. Pardue, I. Vigness.
PB111292, Mi\$2.25, Ph\$4.00.

- | | | | | | | | |
|-------|--|---|---|-------|---|---|--|
| 4271 | | U | An Electron Diffraction Investigation of the Disturbed Surfaces of Quartz Due to Abrasion. | 4286 | | U | A Method of Producing Broadband Circular Polarization in Square Waveguide. |
| 12/53 | | | G. W. Arnold, Jr.
PB111303, Mi\$2.00, Ph\$2.75. | 1/54 | | | A. J. Simmons.
PB114770, Mi\$2.00, Ph\$2.75. |
| 4273 | | U | An Evaluation of Some Substitutes for Ni-Cr Special Treatment Steel. | 4277 | | U | Analysis of Scintillation Spectrometer Observations of the Penetration of Cs ¹³⁷ Gamma Radiation through Water. |
| 11/53 | | | E. F. Bailey,
R. H. Raring. | 12/53 | | | L. A. Beach, R. B. Theus,
W. R. Faust.
PB111291, Mi\$1.50, Ph\$1.50. |
| 4274 | | U | An Impulse Vacuum Tube Voltmeter. | 4279 | | U | Dependence of Sound Absorption on Concentration, Frequency, and Temperature in MgSO ₄ Solutions Equivalent to Sea Water - Graphs from Calculations Based on a Review. |
| 12/53 | | | R. F. Blake.
PB111304, Mi\$1.50, Ph\$1.50. | 1/54 | | | V. A. Del Grosso.
PB113472, Mi\$2.25, Ph\$4.00. |
| 4275 | | U | Shadow Shields. | 4283 | | U | Apparatus for Research on the Discrimination of Velocity. |
| 11/53 | | | E. I. Nowstrup,
L. A. Beach, W. R. Faust.
PB111272, Mi\$1.50, Ph\$1.50. | 12/53 | | | R. H. Brown, A. W. Baldwin.
PB111305, Mi\$1.50, Ph\$1.50. |
| 4276 | | U | Upper Atmosphere Research Report No. XXI - Summary of Upper Atmosphere Rocket Research Firings. | 4288 | | U | A Variable Frequency Pulse Generator with Wide Range of Repetition Rate. |
| 2/54 | | | C. P. Smith, Jr.
PB113693, Mi\$9.25, Ph\$37.75. | 1/54 | | | S. Rigny. |
| 4261 | Augmented Networks. | U | C. F. White.
PB111290, Mi\$2.25, Ph\$4.00. | 4289 | Limited Remote Control of Communication Receiver Functions Via Long DC Lines. | U | R. W. Zeek, G. H. Burbage.
PB111373, Mi\$2.50, Ph\$5.25. |
| 12/53 | | | | 1/54 | | | |
| 4266 | A Note on the Effect of Small Strains on the Electrical Resistance of Uranium Wire. | U | E. W. Kammer.
PB111308, Mi\$2.00, Ph\$3.75. | 4270 | Dual-Channel Rotary Joint for 1250 Mc. | U | M. J. Votaw.
PB113092, Mi\$1.25, Ph\$1.25. |
| 10/53 | | | | 1/54 | | | |
| 4267 | Upper Atmosphere Research Report No. XX. A Lightweight Azimuth-Correcting Sun Follower. | U | H. L. Clark.
PB111308, Mi\$2.00, Ph\$3.75. | 4291 | Synthetic Lubricants for Gyroscopes. | U | J. B. Romans,
T. M. Thomas. |
| 12/53 | | | | 2/54 | | | |
| 4268 | Upper Atmosphere Research Report No. XX. A Lightweight Azimuth-Correcting Sun Follower. | U | H. L. Clark.
PB111308, Mi\$2.00, Ph\$3.75. | 4294 | Concentrated R-F Selectivity in Communication Receivers (Electrical and Electromechanical Filters). | U | R. W. Zeek,
E. Toth. |
| 12/53 | | | | 2/54 | | | |
| 4270 | Dual-Channel Rotary Joint for 1250 Mc. | U | M. J. Votaw.
PB113092, Mi\$1.25, Ph\$1.25. | 4298 | A Variable Frequency Pulse Generator with Wide Range of Repetition Rate. | U | S. Rigny. |
| 1/54 | | | | 1/54 | | | |
| 4271 | An Electron Diffraction Investigation of the Disturbed Surfaces of Quartz Due to Abrasion. | U | G. W. Arnold, Jr.
PB111303, Mi\$2.00, Ph\$2.75. | 4299 | The Visual Discrimination of Velocity as a Function of the Rate of Movement and other Factors. | U | R. H. Brown.
PB113464, Mi\$2.00, Ph\$2.75. |
| 12/53 | | | | 1/54 | | | |

- | | | | | | |
|-------------------|--|-------------------|--|--------------------|--|
| 4300
U
1/54 | Review of the Scientific Program and Organization of the Naval Research Laboratory. (OUO). | 4315
U
3/54 | Image-Motion Compensation in Aerial Cameras by Means of Rotating Thin Prisms. F. S. Johnson, E. J. Shafer. PB113685, Mi\$2.00, Ph\$2.75. | 4330
U
3/54 | Energy Flux Distributions Near Cylindrical Sources. J. D. Plawchan, L. A. Beach, W. R. Faust. PB113747, Mi\$1.50, Ph\$1.50. |
| 4301
U
4/54 | The Elevation-Function Generator for the AN/SPS-3(XB-1). J. N. Libby, H. E. Culver, L. L. Bonham. | 4317
U
3/54 | First Interim Report on Evaluation of Cathodic Protection on Norfolk Group Reserve Fleet Vessels. L. J. Waldron, R. L. Benedict. PB113583, Mi\$3.00, Ph\$7.75. | 4332
U
5/54 | Time Domain Correlation Detectors Vs. Conventional Frequency Domain Detectors. S. F. George. PB114286, Mi\$2.50, Ph\$5.25. |
| 4302
U
2/54 | Infrared and Raman Spectra of the Trimer and Tetramer of Phosphonitric Dichloride. L. W. Daasch. PB113443, Mi\$2.00, Ph\$2.75. | 4319
U
3/54 | Volatile Rust Inhibitors. H. R. Baker. PB111407, Mi\$2.25, Ph\$4.00. | 4333
U
4/54 | A Human Engineering Approach to the Design of Man-Operated Continuous Control Systems. H. P. Birmingham, F. V. Taylor. PB114017, Mi\$2.50, Ph\$5.25. |
| 4303
U
4/54 | Waveguide Slot Arrays of Large Squint Angle. R. J. Adams, A. M. Lide. PB114204, Mi\$3.25, Ph\$9.00. | 4321
U
3/54 | Theoretical Range Capability of an Amplitude-Modulated UHF Radio-Telephone System. E. Toth. | 4334
U
5/54 | Application of a Wiener-Hopf Technique to Certain Diffraction Problems. W. S. Ament. PB114440, Mi\$2.25, Ph\$4.00. |
| 4304
U
3/54 | Upper Atmosphere Research Report No. XXII - Rocket Investigations of the Ionosphere by a Radio Propagation Method. J. C. Seddon. PB113623, Mi\$2.50, Ph\$5.25. | 4307
U
2/54 | Factors Affecting the Operation of Spark Noise Generators. R. H. Wilcox. PB113527, Mi\$2.00, Ph\$2.75. | 4336
U
3/54 | A Gasketless Joint for Application to High-Temperature, High-Pressure Water Systems. G. M. Dannick. PB11363, Mi\$1.50, Ph\$1.50. |
| 4308
U
2/54 | Environmental Aspects of the Naval Research Laboratory. S. E. Golian, F. H. Bebbs, T. A. Bergstrahl, L. A. Harris. | 4310
U
3/54 | Derivative-Controlled Magnetic Amplifiers. A. D. Schnitzler. PB113708, Mi\$2.00, Ph\$2.75. | 4340
U
4/54 | A Twenty-Channel Amplitude Analyzer for Underwater Sound Research. D. L. Davidson, K. M. Murray, R. Q. Tillman. PB114185, Mi\$1.50, Ph\$1.50. |
| 4309 | Cancelled. | 4326
U
4/54 | Servo-Controlled Helix Antenna for Telemetry. K. A. Morgan. PB114184, Mi\$2.50, Ph\$5.25. | 4342
U
11/54 | Pulse Synthesis by Networks. D. Kirk. PB116072, Mi\$2.00, Ph\$2.75. |
| 4312
U
3/54 | Delayed-Yield Time Effect in Mild Steel Under Oscillatory Axial Loads. R. O. Belsheim. PB11410, Mi\$2.50, Ph\$5.25. | 4314
U
3/54 | Frequency-Shift Telegraphy Sidebands with Shaped Keying Signals. F. C. Kahler, L. D. Scheerer. | | |

Numerical Index

4344 - 4387

- | | | | | | |
|-------------------|---|-------------------|---|-------------------|---|
| 4344
U
4/54 | Spectroscopic Studies of the Soaps of Phenylstearic Acid. I - Infrared Absorption Spectra and the Hydrolysis of Soap Films. R. E. Kagarise. PB114229, Mi\$2.00, Ph\$2.75. | 4358
U
5/54 | Bouncing and Rotation Excited by Vibration. I. Vigness. PB114283, Mi\$1.50, Ph\$1.50. | 4373
U
6/54 | A New Magnetic Servo Amplifier. J. W. Kallander. PB111442, Mi\$2.25, Ph\$4.00. |
| 4345
U
3/54 | Gamma Radiation from Interaction of 3.20-Mev Neutrons with Various Materials. V. E. Scherrer, B. A. Allison, P. Shapiro, W. R. Faust. PB113765, Mi\$1.50, Ph\$1.50. | 4361
U
5/54 | An Analytical Method for the Design of Relay Servo-Mechanisms. J. E. Hart. PB114761, Mi\$2.25, Ph\$4.00. | 4374
U
5/54 | Measurement of Nonlinear Distortion in Receiver Multi-couplers. S. R. Swanson. PB114762, Mi\$2.00, Ph\$2.75. |
| 4346
U
4/54 | Ignition Studies. Part III - Ignition Properties of the Isomeric Hexanes. J. E. Johnson, J. W. Crellin, H. W. Carhart. PB111446, Mi\$2.25, Ph\$4.00. | 4362
U
5/54 | Wettability of Nylon, Polyethylene Terephthalate, and Polystyrene by Hydrogen-Bonding and Halogenated Liquids. A. H. Ellison, W. A. Zisman. PB114448, Mi\$2.50, Ph\$5.25. | 4375
U
5/54 | Impedance-Match Indicating Devices. H. W. Merchant, T. J. Rauen. PB111439, Mi\$2.00, Ph\$2.75. |
| 4347
U
5/54 | Polarization Studies of the Lead-Acid Storage Cell. J. J. Lander, E. E. Nelson. PB114282, Mi\$2.25, Ph\$4.00. | 4363
U
6/54 | A Portable Water-Spray Fire Extinguisher for Submarine Use. A. W. Bertschy, A. F. Armington, H. E. Moran, R. L. Tuve. PB111441, Mi\$2.00, Ph\$2.75. | 4376
U
6/54 | Protection of Selenium Rectifiers Against Damage by Mercurial Fungicides. J. M. Leonard, C. E. Patouillet. PB111443, Mi\$2.25, Ph\$4.00. |
| 4353
U
4/54 | Fire Extinguishants for Arctic Use. A. F. Armington, A. W. Bertschy, H. E. Moran, R. L. Tuve. PB111447, Mi\$2.00, Ph\$2.75. | 4364
U
5/54 | Manufacture of Superfine Organic Fibers. V. A. Wente, E. L. Boone, C. D. Fluharty. PB111437, Mi\$2.00, Ph\$2.75. | 4377
U
5/54 | The TW-10, A High Writing Speed Cathode-Ray Tube with Distributed Deflection. R. V. Talbot, L. M. Johnson. PB117512, Mi\$2.25, Ph\$4.00. |
| 4355
U
4/54 | Measurement of Air Flow through an Aircraft Generator During Flight, Part III - Analysis of Flight Test Data for F9F-6 Aircraft. J. M. Marzoli. | 4369
U
5/54 | Infrared Spectra of Plastics and Resins. R. E. Kagarise, L. A. Weinberger. PB111438, Mi\$2.25, Ph\$4.00. | 4380
U
6/54 | A Demonstration of the Effects of Quickening in Multiple-Coordinate Control Tasks. H. P. Birmingham, A. Kahn, F. V. Taylor. PB114750, Mi\$1.50, Ph\$1.50. |
| | | 4372
U
5/54 | The Visual Discrimination of Velocity as a Function of Stimulus Duration and Luminance. R. H. Brown. PB114722, Mi\$2.00, Ph\$2.75. | 4385
U
6/54 | Crystal Diode Ring Multipliers. R. H. Wilcox. PB114763, Mi\$2.00, Ph\$2.75. |

- 4389 U The Friction and Lubrication of Nylon. R. C. Bowers, W. C. Clinton, W. A. Zisman. PB111510, Mimeo\$3.50.
- 4394 U A Standard Source of Radiation for Radiac Detectors. H. M. Childers, A. E. Nash, J. D. Graves. PB115452, Mi\$2.00, Ph\$2.75.
- 4396 U A Linear Coupling Amplifier. W. G. Long, Jr. PB115138, Mi\$2.25, Ph\$4.00.
- 4398 U Dual-Channel Rotary Joint for 3300 Mc. M. J. Votaw. PB115441, Mi\$1.50, Ph\$1.50.
- 4402 U Comparison of Geiger-Counter and Photographic Techniques for Single-Crystal X-Ray Studies. A. B. Wing, L. S. Birks. PB115661, Mi\$2.50, Ph\$5.25.
- 4404 U Interim Report on the Naval Research Laboratory High-Current Photomultiplier. J. D. Shipman, M. R. McCraven, R. V. Talbot. PB115234, Mi\$2.00, Ph\$2.75.
- 4407 U Rocket Research Report No. XIV - The Viking 9 Firings. M. W. Rosen, J. M. Bridger, R. B. Snodgrass. PB129129, Mi\$2.60, Ph\$4.80.
- 4408 U Investigation of the Electro-magnetic Properties of Some Metallic Sulfides at Very High Frequencies. J. P. Stone, A. G. Sands, M. V. McDowell. PB115474, Mi\$2.00, Ph\$2.75.
- 4409 U Marine Borer Control Part II - Creosote Fractionation and Fraction Evaluation. T. R. Sweeney, J. D. Bultman, A. L. Alexander, PB115476, Mi\$2.25, Ph\$4.00.
- 4411 U Marine Borer Control - Part III - Toxin Diffusion Test. T. R. Sweeney, J. D. Bultman, A. L. Alexander. PB115477, Mi\$1.50, Ph\$1.50.
- 4412 U Stochastic Estimates of γ -Ray Spectral Intensities for Shallow and Deep Penetration. L. A. Beach, R. B. Theus, J. D. Plawchan, W. R. Faust. PB114961, Mi\$2.00, Ph\$2.75.
- 4414 U Transient Characteristics of DC Machines - Method for Short Circuit Calculation. J. Cybulski, J. P. O'Connor. PB115799, Mi\$2.50, Ph\$5.25.
- 4415 U A Standard Method for Determining Multicoupler Sensitivity Loss. F. X. Urrico, Jr. PB111541, Mi\$2.00, Ph\$2.75.
- 4418 U Rocket Research Report No. XV - A Counter-Type Precision Phase Source. N. R. Best. PB119772, Mi\$2.40, Ph\$3.30.
- 4419 U A Radio-Frequency Accelerating System for the Cornell 1-Bev Synchrotron. P. F. Shifflett, J. Brotzman, R. V. Talbot. PB115204, Mi\$3.75, Ph\$10.25.
- 4420 U Dynamics of Linear Elastic Structures. R. E. Blake, E. S. Swick. PB115586, Mi\$2.25, Ph\$4.00.
- 4422 U Light Scattering in Fuels Part I - Preliminary Studies on Diesel Fuel Stability. J. E. Johnson, A. J. Chiantella, H. W. Carhart. PB111553, Mi\$2.00, Ph\$2.75.
- 4423 U An Investigation of Cellulase of *Myrothecium Verrucaria*. J. D. Bultman, J. M. Leonard. PB115503, Mi\$2.00, Ph\$2.75.
- 4425 U A Delay Line Controlled FM Subcarrier Discriminator for Telemetry and Frequency Measurement. K. A. Morgan, R. F. Blake. PB115475, Mi\$2.00, Ph\$2.75.
- 4427 U Progress Report for the Period June and July 1954. Work Performed on NRL Problem No. 74H03-01.
- 4428 U Performance of a Compact Monopulse Feed Assembly. I. D. Olin, R. D. Tompkins.
- 4429 U Partially Fluorinated Esters and Ethers as Temperature Stable Liquids. Part I - Synthesis and Characterization. P. D. Faurote, C. M. Murphy, J. G. O'Rear. PB116517, Mi\$2.25, Ph\$4.00.

- 4430 Atmospheric Control on Two
U Extended Dives on the USS
10/54 Trout (SS566).
W. E. McConaughy,
W. N. Crofford, F. S. Thomas,
A. J. Andreach.
- 4431 A Wide-Band Pulse Amplifier
U for High Speed Oscillography.
9/54 W. F. Weedman,
C. B. Dobbie.
PB111542, Mi\$2.25, Ph\$4.00.
- 4432 Diode Coincidence Gate for
U Amplitude Selection.
9/54 C. Y. Johnson.
PB111543, Mi\$1.50, Ph\$1.50.
- 4433 Design and Calibration of Micro-
U wave Antenna Gain Standards.
11/54 W. T. Slayton.
PB116133, Mi\$2.50, Ph\$5.25.
- 4435 The Prevention of Corrosion
U on Magnesium Shipborne
11/54 Radar Antennas.
P. A. Lantz. (OUO).
- 4436 Development of the Optical
U Imaging Oscilloscope
10/54 (OPTIMASCOPE).
A. W. Baldwin.
PB111554, Mi\$1.50, Ph\$1.50.
- 4437 An Instrument for the Rapid
U and Continuous Determina-
10/54 tion of Low Concentrations of
Water Vapor in Gases.
C. C. Minter.
PB116321, Mi\$3.00, Ph\$7.75.
- 4439 Accuracy of Ultrasonic Inter-
U ferometer Velocity of Determina-
12/54 tions. V. A. Del Grosso,
E. J. Smura, P. F. Fougere.
PB116532, Mi\$3.25, Ph\$9.00.
- 4440 Rocket Research Report No.
U XVI - Vibration in the Viking
11/54 9 Rocket. M. W. Oleson,
C. B. Cunningham.
PB129127, Mi\$4.50, Ph\$12.30.
- 4441 Rocket Research at NRL.
U W. M. Leak.
11/54 PB116228, Mi\$2.25, Ph\$4.00.
- 4444 Some Methods of Improving
U the Performance of Twin-T
11/54 Feedback Amplifiers.
T. O. Dixon, D. T. Phillips.
PB116248, Mi\$1.50, Ph\$1.50.
- 4445 Measurement of Air Flow
U Through an Aircraft Generator
11/54 During Flight. Part IV - A
Practical Method.
J. M. Marzolf.
PB111903, Mimeo\$1.00.
- 4446 Progress Report for the
U Period August and September
1954. Work Performed on
1954 NRL Problem No. 74H03-01
Supported Jointly by Los
Alamos Scientific Laboratory
and Office of Naval Research.
(OUO).
- 4447 A Metallurgical Evaluation
U of Refractory Compounds for
11/54 Containing Molten Titanium:
Part I - Oxides.
E. J. Chapin, W. H. Friske.
PB116628, Mi\$2.75, Ph\$6.50.
- 4448 Absorption of 21 CM Radiation
U by Interstellar Hydrogen - I.
10/54 J. P. Hagen, A. E. Lilley,
E. F. McClann.
PB115746, Mi\$2.25, Ph\$4.00.
- 4449 200-Mc Propagation Meas-
U urements Beyond the Radio
11/54 Horizon. H. E. Dinger,
W. E. Garner,
J. E. Raudenbush.
PB116229, Mimeo\$4.45.
- 4451 The Shielded Transmission
U Line Method of Generating
12/54 Standard Fields.
W. E. Garner, H. E. Dinger.
PB116500, Mi\$2.00, Ph\$2.75.
- 4453 Neutron-Detecting Phosphors.
U J. I. Hoover, C. F. Dohne.
12/54 PB116524, Mi\$2.25, Ph\$4.00.
- 4454 Rocket Research Report No.
U XVII. Propellant Level
12/54 Sensors for Viking.
A. W. Niles, R. L. Easton.
PB129028, Mi\$3.00, Ph\$6.30.
- 4456 Reflection of Plane Sound
U Waves from a Rough Surface.
12/54 J. G. Parker.
PB116608, Mi\$2.50, Ph\$5.25.
- 4457 Comparison of Linear and
U Circular Polarization at X-Band
11/54 by Means of a CW Doppler
Radar Operating over Water.
D. G. Chase.
PB116186, Mi\$1.50, Ph\$1.50.
- 4459 A Shallow-Well Gamma Calibra-
U tion Range. A. E. Nash,
12/54 H. M. Childers,
J. D. Graves.
PB116334, Mi\$2.00, Ph\$2.75.
- 4460 Micelle Formation and Solubili-
U zation in Nonaqueous Solvents.
12/54 C. R. Singleterry.
PB116567, Mi\$2.00, Ph\$2.75.
- 4466 Effects of Pulse-Radiation
U Frequency and Contamination
1/55 on the Breakdown Voltage of
Transformer Oil.
T. S. Golden,
D. F. Hemenway.
PB116701, Mi\$2.50, Ph\$5.25.
- 4467 A Metallurgical Evaluation of
U Refractory Compounds for
12/54 Containing Molten Titanium.
Part II - Carbon, Graphite,
and Carbides. E. J. Chapin,
W. H. Friske.
PB116631, Mi\$2.25, Ph\$4.00.

- 4468 U The Effect of Axial Dynamic Loads on the Mechanical Properties of Certain Steels. R. C. Smith, T. E. Pardue, I. Vigness. PB116572, Mi\$2.00, Ph\$2.75.
- 4469 U In-Pile Performance of NRL-1 THIMBLE at MTR. 11/54 J. R. Ambrose. (OUO).
- 4470 U A 1000 to 1200 Megacycle RF Amplifier. 1/55 R. B. McWhirt.
- 4474 U D-C Machines - Short Circuit Calculations and Test Results. 1/55 J. Cybulski, J. P. O'Connor. PB116844, Mi\$2.25, Ph\$4.00.
- 4475 U Further Studies on the Anodization of Lead in Sulfuric Acid Solution. J. J. Lander. 1/55 PB116881, Mi\$2.50, Ph\$5.25.
- 4476 U Ignition Studies. Part IV - Relation of Minimum Ignition Point to Other Ignition Phenomena. J. W. Crellin, J. E. Johnson, H. W. Carhart. PB11614, Mimeo\$50.
- 4478 U A Metallurgical Evaluation of Refractory Compounds for Containing Molten Titanium Part III - Borides and Sulphides. E. J. Chapin, W. H. Friske. 1/55 PB116626, Mi\$2.50, Ph\$5.25.
- 4479 U Proposed Thermonuclear Investigation. 12/54 W. H. Bennett.
- 4482 U Short Circuit Calculations and Test Results for D-C Power Systems. J. Cybulski, J. P. O'Connor. 1/55 PB116860, Mi\$2.00, Ph\$2.75.
- 4483 U Slip Casting of Barium Titanate. J. F. Murray. 2/55 PB111629, Mi\$2.00, Ph\$2.75.
- 4484 U Spectral Distribution of Radiation from Cylindrical Sources. 1/55 J. D. Plawchan, L. A. Beach, W. R. Faust. PB116568, Mi\$1.50, Ph\$1.50.
- 4485 U Progress Report for the Period October through December 1954, 1955 Work Performed on NRL Problem No. 74H03-01 Supported Jointly by Los Alamos Scientific Laboratory and Office of Naval Research. (OUO).
- 4487 U A Circular Waveguide Coupling for Laboratory Use. 1/55 P. J. Allen. PB116623, Mi\$1.50, Ph\$1.50.
- 4488 U Investigation of Dielectric Methods for the Measurement of Sea Water in Fuel Oil. 2/55 T. D. Callinan, R. M. Roe, J. B. Romans. PB117148, Mi\$2.25, Ph\$4.00.
- 4489 U Rocket Research Report No. XVIII - Photography from the Viking 11 Rocket at Altitudes Ranging up to 158 Miles. 2/55 R. C. Baumann, L. Winkler. PB119796, Mi\$3.00, Ph\$6.30.
- 4490 U Balloon Elevated Antennas. M. L. Leppert, F. J. Shanahan, D. A. Worsley. 2/55
- 4492 U A Method of Wavelength Measurement for the Centimeter and Millimeter Wave Regions. 4/56 M. B. Rapport, E. W. Ward, W. W. Balwanz. PB111909, Mimeo\$50.
- 4493 U Partially Fluorinated Esters and Ethers as Temperature-Stable Liquids. Part II - Physical and Chemical Properties. C. M. Henderson, C. M. Murphy, H. Ravner. 3/55 PB111684, Mi\$2.25, Ph\$4.00.
- 4495 U Transient Response of Plane Parallel Fuel Assemblies to Exponential Power Excursions. (Deleted Version.) S. E. Golian, T. A. Bergstrahl, E. G. Harris, R. C. O'Rourke. 1/55
- 4496 U An Evaluation of Corrosion Inhibitors for Use in Aircraft Fuels. J. A. Kryntsky, R. L. Shuler. 2/55 PB111624, Mimeo\$1.00.
- 4498 U Some Characteristics of Image Orthicon Camera Tubes. 3/55 H. L. Wuerffel, D. E. Webb. PB111658, Mimeo\$1.25.
- 4499 U Deformation of Metals Under Combined Tension and Torsion. J. B. Tiedemann. 3/55 PB117333, Mi\$2.50, Ph\$5.25.
- 4501 U Optical and Photoconductive Properties of Silicon and Germanium. E. Burstein, G. S. Picus, N. Sclar. 7/55 PB111748, Mimeo\$1.25.
- 4502 U Cancelled.
- 4503 U Flight Tests of the AN/APN-67 Automatic Navigator Using Space Duplexing. C. R. Grant, E. F. McClain, W. R. Ferris. 2/55
- 4506 U Thermal Conductivity of Mercury. C. T. Ewing, R. E. Seebold, J. A. Grand, R. R. Miller. 3/55 PB117336, Mi\$2.00, Ph\$2.75.
- 4507 U Triple-Address Coding for the NAREC. J. S. Seward. 3/55 PB117259, Mi\$2.00, Ph\$2.75.
- 4508 U Thermionic Emission from Surfaces with Adsorbed Active Centers. G. A. Haas. 3/55 PB117509, Mi\$2.25, Ph\$4.00.
- 4509 U Radioactivity of the Air. I. H. Blifford, Jr., H. Friedman, L. B. Lockhart, Jr., R. A. Baas. 3/55

Numerical Index

4510 - 4551

- | | | | | | | | |
|------|--|------|---|--|---|--|---|
| 4511 | A Comparison Between the PPI-Scope and the 360° B-Scope for Purposes of Target Evaluation. W. D. Garvey, L. L. Mitnick. | 4525 | The Cathodic Protection System on the USS Amberjack - SS 522. U
5/55 | March 1953 to February 1955. E. E. Nelson. | 4539 | Friction and Wear Studies of Chlorinated Methylphenyl Silicones. R. C. Bowers, R. L. Cottingham, T. M. Thomas, W. A. Zisman. PB118216, Mi\$2.70, Ph\$4.80. | |
| 4513 | Rocket Research Report No. XIX. The Viking 10 Firings. U
5/55 | 4527 | Progress Report for the Period January-March 1955. Work Performed on NRL Problem No. 74H03-01 Supported Jointly by Los Alamos Scientific Laboratory and Office of Naval Research. | 4541 | Full-Wave Reversible-Polarity Half-Cycle-Response Magnetic Amplifiers. C. B. House. PB111747, Mi\$2.50, Ph\$5.25. | | |
| 4516 | An Aviation Gasoline Contamination Detection Kit, Part I - Development. U
4/55 | 4528 | The Application of X-Ray Fluorescence to Trace Analysis. U
4/55 | M. B. Cavanagh. PB111685, Mi\$1.50, Ph\$1.50. | 4542 | An Examination of the 1948 Liquid Helium Vapor Pressure-Temperature Scale. U
5/55 | J. R. Clement, J. K. Logan, J. Caffney. PB117720, Mi\$2.25, Ph\$4.00. |
| 4517 | N-Alkylation of Amines with Alcohols Catalyzed by Raney Nickel. R. G. Rice, E. J. Kohn. U
4/55 | 4529 | A 2500-Watt Wideband Sonar Frequency Amplifier. U
6/55 | T. O. Dixon. PB118218, Mi\$2.40, Ph\$3.30. | 4543 | A Variable-Frequency Magnetic-Coupled Multivibrator. U
5/55 | R. L. VanAllen. PB117928, Mi\$2.00, Ph\$2.75. |
| 4518 | The Deflections of a Gear Drive used for a Radar Antenna Mount. U
6/55 | 4531 | Rocket Research Report No. XX. Flight Measurements of Aerodynamic Heating and Boundary-Layer Transition on the Viking 10 Nose Cone. U
6/55 | R. B. Snodgrass. | 4545 | Effect of Temperature on the Ductility of High-Strength Structural Steels Loaded in the Presence of Sharp Cracks. U
6/55 | P. P. Puzak, W. S. Pellini. PB111720, Mi\$2.50, Ph\$5.25. |
| 4522 | A Keyed Oscillator for Time-Delay Generation. U
5/55 | 4534 | A Convenient Method of Determining Vapor Pressure. U
5/55 | J. M. Leonard, J. D. Bultman. PB117925. Mi\$1.50. Ph\$1.50. | 4546 | The Use of Radioactive Self-Luminous Markers as Sources of Illumination. U
7/55 | L. J. Boardman. PB111746, Mi\$2.25, Ph\$4.00. |
| 4523 | Effect of Rare-Earth Additions on the High-Temperature Properties of a Cobalt-Base Alloy. U
4/55 | 4536 | Some Factors Affecting the Decomposition of Hydrazine in Liquid Ammonia. U
6/55 | J. P. Redmond, J. A. Krynskiy. PB118215, Mi\$2.70, Ph\$4.80. | 4550 | Effect of Prior Cold Work on the High-Temperature Properties of a Chromium-Molybdenum Steel. U
6/55 | P. Shahinian. |
| 4524 | Rate Measurement of Marine Chronometers, Gimbal-Mounted Chronometer Watches, and Non-Gimbal Navigating Watches under Controlled Climatic Conditions. Part I - Instrumentation. U
7/55 | | | | 4551 | A General Description of the NAREC. U
7/55 | D. H. Gridley, J. S. Stewart. PB118197, Mi\$2.40, Ph\$3.30. |

- 4553 Spot-Width Variation in
U Weissenberg X-Ray Diffraction
7/55 Patterns from Single Crystals.
A. B. Wing.
PB118191, Mi\$2.40, Ph\$3.30.
- 4554 The Effect of Fluctuations in
U Signal Strength on the Relative
8/55 Performance of Start-Stop
and Synchronous Teletypewriter
Systems. F. C. Kahler.
- 4557 Field Facilities for Environ-
U mental Research of the Naval
7/55 Research Laboratory.
A. L. Alexander,
B. W. Forgeson.
PB118297, Mi\$3.30, Ph\$7.80.
- 4558 The Development of Aircraft
U Fire-Fighting Vehicles
7/55 Incorporating Foam Pumps.
R. L. Tuve, R. R. Neill,
H. B. Peterson,
E. J. Jablonski.
PB118450, Mi\$3.30, Ph\$7.80.
- 4559 Effect of Diffraction on Sound
U Velocity Measurement in an
8/55 Idealized Acoustic Inter-
ferometer. J. G. Parker.
PB118866, Mi\$3.30, Ph\$7.80.
- 4560 A Coaxial UHF Noise Source.
U H. Montague.
8/55 PB118451, Mi\$2.70, Ph\$4.80.
- 4561 Tables for Eclipse Functions
U and for Reduction of Drift
8/55 Curves in Radio Astronomy.
G. Grant.
PB118703, Mi\$2.40, Ph\$3.30.
- 4563 Tropical Performances of
U Fungicidal Coatings, Part II.
7/55 J. M. Leonard, J. D. Bultman.
PB111788, Mimeo\$5.50.
- 4564 Characteristics of the Bainite
U Transformation in a Ni-Cr Steel.
6/55 L. S. Birks.
PB118130, Mi\$1.80, Ph\$1.80.
- 4566 Experimental Gamma Radiac
U Calibrator. J. D. Graves.
7/55 PB118210, Mi\$2.40, Ph\$3.30.
- 4567 Circuit Equations for
U Rectifier and Magnetic
11/55 Amplifier Circuits.
D. H. Schaefer.
PB111770, Mimeo\$1.00.
- 4568 Rate Measurement of Marine
U Chronometers, Gimbal-Mounted
8/55 Chronometer Watches, and
Non-Gimbal Navigating Watches
under Controlled Climatic Con-
ditions. Part II - Definition of
the Term "Rate." H. M. Suski.
PB118513, Mi\$2.70, Ph\$4.80.
- 4569 Wetting Properties of Organic
U Liquids on High-Energy
7/55 Surfaces. H. W. Fox,
E. F. Hare, W. A. Zisman.
PB118452, Mi\$2.70, Ph\$4.80.
- 4570 Recording Horizontal Atmos-
U spheric Transmission of Light
7/55 by Night and Day. T. H. Cosden.
PB126603, Mi\$2.40, Ph\$3.30.
- 4571 A Simple Meter for Radioactive
U Fall Out. C. C. Klick,
6/55 H. Rabin, J. J. Lamble,
H. J. Peake, P. T. Cole.
PB111694, Mimeo\$5.50.
- 4578 Methods for Improving
U Soundness of Gun-Metal
7/55 Bronze Castings.
W. H. Johnson, H. F. Bishop,
W. S. Pellini.
PB119011, Mi\$2.40, Ph\$3.30.
- 4579 Floating-Point Coding for
U the NAREC. L. E. Davis.
8/55 PB111816, Mimeo\$7.55.
- 4581 Penetration of Na²⁴ Radiation
U through H₂O and Hg.
7/55 L. A. Beach, R. B. Theus,
W. R. Faust.
- 4582 DC to AC Square-Wave Static
U Converter and Amplifier.
7/55 H. T. Mortimer.
PB118454, Mi\$1.80, Ph\$1.80.
- 4583 A Spectrum of the Glow from
U a Radioactive Source.
8/55 L. F. Drummer, Jr., J. A. Curcio.
PB118865, Mi\$1.80, Ph\$1.80.
- 4584 Calculation of Radar Per-
U formance and the Effect of
8/55 Roll and Pitch.
W. S. Alderson.
- 4586 The Performance of Galvanic
U Anodes for Cathodic Pro-
7/55 tection. E. E. Nelson,
L. J. Waldron.
PB118243, Mi\$3.00, Ph\$6.30.
- 4587 A Two-Year Evaluation of
U Cathodic Protection on
8/55 Charleston Group Reserve
Fleet Vessels.
L. J. Waldron.
PB119014, Mi\$2.70, Ph\$4.80.
- 4588 The Performance of High-
U Current-Density Electron
8/55 Guns. H. D. Arnett,
R. H. Kyser.
PB118864, Mi\$1.80, Ph\$1.80.
- 4589 Regulated Power Supplies with
U Silicon Junction Reference.
8/55 D. G. Scorgie.
PB111814, Mimeo\$5.50.
- 4591 Control Method of Chemical
U Analysis of Barium Titanate.
8/55 W. Zimmerman, III,
S. Zerfass, P. H. Egli.
PB111780, Mi\$2.25, Ph\$4.00.

- 4592 Ferrite Components for 8.7-MM
U Wavelength. A. I. Reynard.
8/55 PB111813, Mimeo\$50.
- 4593 Miss-Distance Indication
U by the Electrostatic
12/55 Detection of Aircraft.
M. G. Kaufman,
J. P. Dougherty.
- 4593 Supplement.
U M. G. Kaufman, W. N. Ellis.
8/56
- 4595 The Physics of Semiconductor
U Materials. E. Burstein,
1/56 P. H. Egl.
- 4596 Major Factors in the Cathodic
U Protection of Steel in Sea
8/55 Water. L. J. Waldron,
E. E. Nelson, M. H. Peterson.
PB111807, Mi\$2.40, Ph\$3.30.
- 4597 Hot Cracking of Stainless
U Steel Weldments.
8/55 P. P. Puzak, W. R. Applett,
W. S. Pellini.
PB119010, Mi\$2.40, Ph\$3.30.
- 4599 Servo Tuning of Remote Com-
U munications Receivers Via
8/55 A Combination Wire-Line and
Radio-Link Control System.
R. W. Zeek, G. H. Burbage.
- 4600 Advances in the Physics of the
U Upper Air Since 1950.
10/55 E. O. Hulburt.
PB118963, Mi\$3.00, Ph\$6.30.
- 4601 An Atlas of the Absorption
U Spectrum of the Atmosphere
8/55 from 5400 to 8520A.
J. A. Curcio, G. L. Knestrick.
PB118721, Mi\$2.40, Ph\$3.30.
- 4602 Tracking Radar External Range
U Noise Measurements and
8/55 Analysis. D. D. Howard,
B. L. Lewis.
- 4603 The Construction of an Improved
U "Jeep-Class" Aircraft Fire-
9/55 Fighting Vehicle.
H. B. Peterson, R. R. Neill,
E. J. Jablonski.
PB118722, Mi\$2.40, Ph\$3.30.
- 4604 Coding by Groups as a Mode of
U Stimulus Presentation.
9/55 W. B. Knowles, E. P. Newlin.
PB119144, Mi\$2.40, Ph\$3.30.
- 4605 Studies on the Mechanism of the
U Action of Wash Primers.
8/55 Part I - Progress Report on
WP-1 and Iron. J. Kruger,
M. C. Bloom.
- 4606 Arctic Tests of Meteorological
U Equipment. W. A. VonWald, Jr.
9/55 PB119115, Mi\$2.70, Ph\$4.80.
- 4607 Relationship between the Air
U Concentration of Radioactive
11/56 Fission Products and Fallout.
I. H. Blifford, Jr.,
L. B. Lockhart, Jr., R. A. Baus.
- 4608 Theory of the Optically Focused
U Synchrotron.
10/55 D. C. dePackh.
PB118287, Mi\$3.00, Ph\$6.30.
- 4609 Correlation of the Thermody-
U namic and Electrical Character-
9/55 istics of Blast-Cooled Aircraft
Generators. Part I - Back-
ground Information and Present
State of the Art.
D. Friedman, D. H. Scott.
PB119116, Mi\$2.40, Ph\$3.30.
- 4610 Correlation of the Thermo-
U dynamic and Electrical Char-
10/55 acteristics of Blast-Cooled
Aircraft Generators. Part II -
Experimental Evaluation of a
General Electric 15-KVA
Narrow-Speed-Range Generator
(Model 2CM212A2).
D. Friedman.
PB119114, Mi\$3.00, Ph\$6.30.
- 4611 Recording Radar Signals at
U Intermediate Frequencies
8/55 J. L. Ahcarn, Jr.,
J. M. Headrick.
PB119143, Mi\$2.40, Ph\$3.30.
- 4617 Temperature Dependence of
U Infrared Quenching of Cadmium
9/55 Sulphide. S. H. Liebson.
PB119367, Mi\$1.80, Ph\$1.80.
- 4618 The Development of a Rubber-
U Compatible and Ice-Resistant
10/55 Lubricant for Aircraft
Ordnance. H. R. Baker,
V. G. Fitzsimmons,
C. R. Singleterry,
F. F. Sullivan, T. M. Thomas.
PB111739, Mi\$3.30, Ph\$7.80.
- 4620 A Field Evaluation of Termite
U Repellents. J. D. Bultman,
10/55 R. N. Little, J. M. Leonard.
PB111737, Mi\$1.50, Ph\$1.50.
- 4621 Velocity Tests of NRL Valve
U Pulsejet and Whirling Loss
11/55 Evaluation. C. D. Porter,
M. A. Persechino.
PB118286, Mi\$2.40, Ph\$3.30.
- 4622 Crack Arresting by Overlays
U of Notch-Tough Weld Metal.
9/55 P. P. Puzak, W. S. Pellini.
PB111781, Mi\$1.50, Ph\$1.50.
- 4623 X-Ray Diffraction Studies of
U the Bainite Transformation in
10/55 Four Alloy Steels.
L. S. Birks, R. T. Seal.
PB111771, Mi\$2.00, Ph\$2.75.
- 4624 Methods of Measuring the
U Birefringence of Aircraft
10/55 Glazing Materials.
M. J. Kramer.
PB111825, Mimeo\$75.
- 4627 Hydrolysis of Oil-Dispersed
U Soaps in the Presence of Carbon
10/55 Dioxide. H. R. Baker,
C. R. Singleterry.
PB111738, Mi\$2.00, Ph\$2.75.
- 4630 An Active Filter. G. K. Jensen,
U J. E. McGeogh.
11/55 PB111787, Mimeo\$50.

- 4631 U Increasing the Reliability of Electronic Equipment by the Use of Redundant Circuits. C. J. Creveling. PB111740, Mi\$2.00, Ph\$2.75.
- 4635 U The Performance of a Cathodic Protection System on the USS Sumner (DD-692) - December 1953 - January 1955. L. J. Waldron, M. H. Peterson. PB118289, Mi\$1.80, Ph\$1.80.
- 4636 U The Performance of a Cathodic Protection System on the USS Ingraham (DD694) - December 1953 - January 1955. L. J. Waldron, M. H. Peterson. PB111742, Mi\$1.50, Ph\$1.50.
- 4637 U The Performance of a Cathodic Protection System of the LST 532 - April 1953 - April 1955. L. J. Waldron, M. H. Peterson. PB118288, Mi\$1.80, Ph\$1.80.
- 4638 U Electrical Resistance Study of the Effects of Oxygen on the Allotropic Transformation of Titanium. L. A. DePue, E. J. Chapin. PB111741, Mi\$2.25, Ph\$4.00.
- 4639 U Final Report on the Time Standard AN/FSM-5A. P. P. Bey, H. F. Hastings. PB118285, Mi\$3.30, Ph\$7.80.
- 4640 U Differential Elastic Scattering of 14-Mev Neutrons in Bismuth, Tantalum, Indium, Iron, and Sulfur. J. O. Elliot. PB118324, Mi\$6.40, Ph\$15.30.
- 4643 U Counting Pulsed Neutron Fluxes in the Presence of Pulsed X-Rays. A. Brodsky, W. J. Willis. PB111769, Mi\$1.50, Ph\$1.50.
- 4644 U A Hydrogen Effusion Method for the Determination of Corrosion Rates in Aqueous Systems at Elevated Temperature and Pressure. M. C. Bloom, M. Krulfeld. PB111772, Mimeo\$5.50.
- 4645 U Rate Measurement of Marine Chronometers, Gimbal-Mounted Chronometer Watches, and Non-Gimbal Navigating Watches Under Controlled Climatic Conditions. Part III - The Estimated Over-All Error of Three Rate Measuring Methods. H. M. Suski. PB111774, Mi\$3.25, Ph\$9.00.
- 4647 U A Middle Ultraviolet Transmission Filter. L. Dunkelman, D. E. Field. PB111773, Mi\$1.50, Ph\$1.50.
- 4648 U Electric Resonance in a Dipolar Gas. F. E. Geiger, J. I. Kaplan. PB111778, Mi\$1.50, Ph\$1.50.
- 4649 U The Transosonde - A New Meteorological Data-Gathering System. A. D. Anderson, H. J. Mastenbrook, H. D. Cubbage. PB111779, Mi\$2.70, Ph\$4.80.
- 4650 U Transformation Studies of Substitute Special Treatment Steels. Part I - Comparison of Transformation Diagrams. L. F. Spencer, R. H. Raring. PB111783, Mi\$2.00, Ph\$2.75.
- 4651 U Probing into Cool Flames. Part II - Dynamic Studies at Short Residence Times. K. G. Williams, F. J. Woods, J. E. Johnson, H. W. Carhart. PB118566, Mi\$2.70, Ph\$4.80.
- 4652 U Programming Manual for the NAREC. J. S. Steward. PB111784, Mi\$4.00, Ph\$11.50.
- 4653 U The Magnetic Particle Clutch and its Application to Servomechanisms. W. P. Jones. PB111782, Mimeo\$0.75.
- 4654 U Fallout Dosages at Washington, D. C. I. H. Blifford, Jr., H. B. Rosenstock. PB137037, Mi\$1.80, Ph\$1.80.
- 4655 U The Measurement and Evaluation of Luminous Material. L. H. Dawson. PB111785, Mi\$4.00, Ph\$11.50.
- 4658 U Tables for the Calculation of Horizontal Ranges of Rays in a Medium in which the Velocity is a Continuous Function of Depth. R. W. Bryant, A. G. Pieper, C. A. Boudreau.
- 4659 Cancelled.
- 4660 U A Broadband Dual-Mode Circular Waveguid Transducer. R. D. Tompkins. PB111790, Mi\$1.50, Ph\$1.50.
- 4663 U Alkyd Resins for Vinyl Finishes, Part II - Atmospheric Resistance. S. B. Crecellius. PB111824, Mimeo\$0.50.
- 4664 U Video-Presentation Analyzer, 50 KC to 10 MC. F. T. Griffin. PB111852, Mimeo\$0.75.
- 4666 U Total Cross Sections for 14-Mev Neutrons-Comparison of Measured Values with Values Calculated from the Complex Square-Well Model. W. I. McGarry, J. O. Elliot, W. R. Faust. PB111853, Mi\$1.50, Ph\$1.50.
- 4667 U An Analysis of the Diode Mixer Consisting of Nonlinear Capacitance and Conductance and Ohmic Spreading Resistance. A. C. Macpherson. PB111786, Mi\$2.00, Ph\$2.75.
- 4668 U Naval Research Laboratory Research Reactor. Part I - Instrumentation Tests at Oak Ridge National Laboratory. C. W. Peters, F. E. Jablonaki, M. P. Young. PB111859, Mimeo\$0.50.
- 4669 U The Absorption Spectrum of the Atmosphere from 4400 to 5500A. J. A. Curcio, L. F. Drummetter, T. H. Coaden. PB111860, Mimeo\$0.50.

Numerical Index

4670 - 4714

- 4670 The Analysis and Matching of a
U Trimode Turnstile Waveguide
12/55 Junction. R. S. Potter.
PB111867, Mi\$3.00, Ph\$7.75.
- 4671 An Instantaneous Sound Spectro-
U graph. R. D. Mianer.
1/58 PB111864, Mimeo\$1.00.
- 4672 Marine Borer Control. Part IV -
U Evaluation of Creosote Fractions.
12/55 T. R. Sweeney, T. R. Price,
A. L. Alexander.
PB111866, Mimeo\$.50.
- 4673 Monte Carlo Reactor Calculation.
U S. Podgor, L. A. Beach.
12/55 PB111865, Mi\$1.50, Ph\$1.50.
- 4674 Comparative Fungicide Attenua-
U tions in Oil-Modified Coatings.
12/55 J. M. Leonard, S. B. Crecelius,
H. L. McKeown, D. E. Klemme.
PB111868, Mimeo\$.50.
- 4677 Procedures for Riserling Steel
U Castings. H. F. Bishop,
12/55 W. H. Johnson.
PB111871, Mi\$2.00, Ph\$2.75.
- 4679 The Determination of Arsenic in
U Steel by X-Ray Fluorescence.
12/55 M. B. Cavanagh.
PB111870, Mi\$1.50, Ph\$1.50.
- 4680 A Portable Reader for DT-60
U Dosimeters. J. C. Schaffert.
1/56 PB111887, Mimeo\$.50.
- 4681 Transcendental Function Analogue
U Computation with Magnetic Cores.
2/56 D. H. Schaefer, R. L. Van Allen.
PB111900, Mimeo\$.50.
- 4682 Experiments Using Window to
U Measure High-Altitude Winds.
1/56 A. D. Anderson, W. E. Hoehne.
PB111901, Mimeo\$.50.
- 4683 The Effect of Gases in Steel.
U J. A. Rinebolt, R. H. Raring.
1/56 PB111899, Mimeo\$.75.
- 4684 Surface Activity at the
U Organic-Liquid/Air Interface.
2/56 A. H. Ellison, W. A. Zisman.
PB111902, Mimeo\$.75.
- 4685 The Development of the NRL
U Electrochemical Recorder Paper.
3/56 E. J. Kohn, D. L. Venezky,
R. G. Rice, F. J. Ross,
G. F. Asbury, Sr.
- 4686 Boundary Lubrication Studies of
U Typical Fluoroesters.
12/55 R. C. Bowers, R. L. Cottingham,
T. M. Thomas, W. A. Zisman.
PB111906, Mimeo\$1.25.
- 4687 Circularly Polarized Slot Radia-
U tors. A. J. Simmons.
1/56 PB111904, Mimeo\$.50.
- 4689 The Hydrogen Line Red Shift of
U Radio Source Cygnus.
12/55 A. E. Lilley, E. F. McClain.
PB111905, Mi\$1.50, Ph\$1.50.
- 4690 A Low-Noise L-Band Amplifier.
U L. Hoffman, H. Montague.
2/56 PB111907, Mimeo\$.50.
- 4693 Battery Analyzer for Use in
U Storage Battery Studies.
2/56 G. W. Work, C. P. Wales.
PB111932, Mimeo\$.50.
- 4694 A Target Simulator. A. J. Stecca,
U N. V. O'Neal, J. J. Freeman.
2/56
- 4695 Pseudorandom Numbers and
U Collision Parameters for Monte
2/56 Carlo Shielding Calculations.
R. B. Theus, L. A. Beach,
PB111951, Mimeo\$.50.
- 4701 Gamma-Ray Albedo from Iron.
U R. B. Theus, L. A. Beach.
2/56
- 4702 Analogue Computation of Quo-
U tients and Functions Containing
2/56 Quotients using Magnetic Cores.
D. H. Schaefer.
- 4703 Transfer of Training between
U Quickened and Unquickened
2/56 Tracking Systems.
J. G. Holland, J. B. Henson.
PB111970, Mimeo\$.50.
- 4704 Millimeter Wavelength Components.
U R. G. Fellers, J. A. Kaiser.
3/56 PB111968, Mimeo\$.75.
- 4705 Strain Energy Release Rates
U for Fractures Caused by Wedge
3/56 Action. A. A. Wells.
PB111975, Mi\$2.00, Ph\$2.75.
- 4706 A Pulsed-Light Reader for the
U DT-60 Glass Dosimeter.
3/56 J. C. Schaffert.
PB111977, Mimeo\$.50.
- 4707 An Analysis of Tracking Behavior
U in Terms of Lead-Lag Errors.
2/56 W. D. Garvey, L. L. Mitnick.
PB111978, Mimeo\$.50.
- 4708 The Influence of Field of View
U on the Transmission of Light
3/56 through Turbid Water.
A. G. Rockman, W. B. Fussell.
PB111979, Mimeo\$.50.
- 4711 Corrosion Studies in High-
U Temperature Water by a Hydrogen
3/56 Effusion Method. M. C. Bloom,
M. Krulfeld, W. A. Fraser,
P. N. Viannes.
PB119527, Mi\$2.40, Ph\$3.30.
- 4712 A Model for Non-Thermal Radio
U Source Spectra. N. G. Roman,
3/56 F. T. Haddock.
PB111710, Mi\$1.50, Ph\$1.50.
- 4713 Notch Ductility of Commercial
U Malleable Irons. H. F. Bishop,
3/56 G. A. Sandoz, N. C. Howells,
W. S. Pellini.
PB111999, Mimeo\$.75.

4716	Rate Measurement of Marine Chronometers, Gimbal-Mounted Chronometer Watches, and Non-Gimbal Navigating Watches under Controlled Climatic Conditions. Part IV - Rate-Pressure and Rate-Temperature Trends. H. M. Suski. PBI21008, Mimeo\$1.00.	4729	Naval Research Laboratory Research Reactor, Part II - Reactivity Measurements on a Graphite and Water Reflected Core. E. H. Bebbs, R. H. Vogt, K. W. Downes. PBI21050, Mimeo\$1.00.	4743	Filtered X-Ray Spectra. L. C. Thompson. PBI21102, Mimeo\$.75.
4718	Notch Ductility of Austenitic Nodular Irons. R. E. Morey, H. F. Bishop. PBI21014, Mimeo\$.75.	4730	Investigation of Metallurgical and Mechanical Effects in the Development of Hot Tearing. H. F. Bishop, C. G. Ackerlind, W. S. Pellini. PBI21049, Mi L. C. Microcard \$1.80, Mimeo\$.75.	4746	Techniques for Using Fissionable Deposits in Neutron Measurements. A. Brodsky, L. W. Fagg, T. D. Harscome. PBI21124, Mi\$2.40, Ph\$3.30.
4719	Dynamics of Package Cushioning Involving Combined Rotations and Translations. D. M. Chase, I. Vigness. PBI21015, Mimeo\$1.50.	4731	Investigation of Modified 12% Chromium Steels for Intermediate Temperature Applications. P. Shahinian, J. R. Lane. PBI21226, Mi L. C. Microcard \$1.80, Mimeo\$.75.	4747	Electromagnetic Waves in a Magnetized Ferrite Sphere. W. S. Ament, H. J. Passerini. PBI21126, Mimeo\$1.25.
4721	Prediction of Future Position of a Target Track on Four Types of Displays. W. D. Garvey, W. B. Knowles, E. P. Newlin. PBI11808, Mimeo\$.50.	4732	Elevation-Azimuth Servo System Specifications for Star Tracking. C. F. White, J. W. Titus. PBI11711, Mi\$2.50, Ph\$5.25.	4749	Reed-Gage Shock-Spectrum Characteristics of Navy Light-Weight High-Impact Shock Machine. A. F. Dick. PBI21147, Mimeo\$.75.
4722	Magnetic Tape Recording System for Pressure-Time Records of Underwater Explosions. A. L. Howard. PBI21041, Mimeo\$.75.	4733	Anomalous Electron Emission from Metallic Surfaces. F. R. Brotzen. PBI11938, Mi\$2.00, Ph\$2.75.	4750	Reed-Gage Shock-Spectrum Characteristics of Navy Medium-Weight High-Impact Shock Machine. A. F. Dick, R. E. Blake. PBI21158, Mimeo\$1.25.
4723	Test, Evaluation, and Analysis of a Foam Pump for Fire Fighting Application. H. B. Peterson. PBI21042, Mi\$2.40, Ph\$3.30.	4734	The Properties of Desoxycholic Acid at the Air/Wave Interface. E. F. Hare, W. A. Zisman. PBI21062, Mi\$2.70, Ph\$4.80.	4751	A Study of the Birefringence of Hot-Stretched Polymethyl Methacrylate. M. J. Kramer. PBI21160, Mimeo\$.75.
4724	Some Recent Developments of Self-Recording Gages for Measuring the Intensity of Mechanical Shock. I. Vigness. PBI21043, Mi\$2.40, Ph\$3.30.	4735	Free-Atmosphere Turbulence. A. D. Anderson. PBI21090, Mimeo\$2.50.	4752	The Relationship Between the Electronegativities of Substituents and the Carbonyl Stretching Frequency. R. E. Kagarise. PBI21159, Mimeo\$.50.
4725	Notch Ductility of Malleable Irons. G. A. Sandoz, N. C. Howells, H. F. Bishop, W. S. Pellini.	4736	Cancelled.	4753	Thin Films of Polytetrafluoroethylene Resin (Teflon) as Lubricants and Preservative Coatings for Metals. V. G. Fitzsimmons, W. A. Zisman. PBI21161, Mimeo\$1.00.
4727	Upper Atmosphere Research, Report No. XXV, Aerobee-HI Report Number 2, The NRL-37 Firing. E. C. Pressly, J. W. Townsend, Jr.	4737	Dimensioning of Risers for Nodular Iron Castings. H. F. Bishop, C. G. Ackerlind. PBI21091, Mi\$2.70, Ph\$4.80.	4754	Magnetic Arbitrary Waveform Generator. C. B. House. PBI21157, Mimeo\$.50.

Numerical Index

4757 - 4800

- | | | | | | |
|-------------------|---|-------------------|---|-------------------|--|
| 4757
U
6/56 | Upper Atmosphere Research Report No. XXVI, Aerobee- HI Report Number 3, The NRL-38 Firing. E. C. Pressly, J. W. Townsend, Jr. | 4773
U
7/56 | A Synchro-Data Quantizer and Servo. J. C. Leifer. PB121242, Mimeo\$.75. | 4788
U
7/56 | The Hall Effect in the Silver-Palladium Alloy System. A. I. Schindler. PB121311, Mimeo\$.50. |
| 4759
U
7/56 | Atmospheric Transmission in the Infrared. J. H. Taylor, H. W. Yates. PB121199, Mimeo\$.50. | 4775
U
6/56 | Electrolytic Generation of Oxygen without the Accompanying Generation of Hydrogen. G. W. Work. PB121245, Mimeo\$.50. | 4789
U
9/56 | Design of Shock- and Vibration-Resistant Electronic Equipment for Shipboard Use. H. M. Forkois, K. E. Woodward. |
| 4760
U
6/56 | Radioactivity of the Air. I. H. Blifford, Jr., H. Friedman, L. B. Lockhart, Jr., R. A. Baus. PB121122, Mimeo\$.1.25. | 4776
U
7/56 | A Remote Control Wide-Band Multichannel Telemeter. E. E. Bissell, Jr., M. W. Oleson. PB121246, Mimeo\$.75. | 4791
U
7/56 | A High-Level Microwave Detector. H. G. P. Ohman, W. L. Roberts. |
| 4761
U
6/56 | Effect of Geometry on the Properties of 195-T6 and 356-T6 Aluminum Alloy Castings. W. H. Johnson, H. F. Bishop. PB121227, Mimeo\$.50. | 4777
U
7/56 | An Abstract Model for a Ferromagnet. J. I. Kaplan. PB121247, Mimeo\$.50. | 4792
U
7/56 | The Effect of Solvent-Type Cements on the Shatter Resistance of Stretch Oriented Acrylics. H. L. Smith. PB121028, Mimeo\$.50. |
| 4762
U
6/56 | Sonar Digital Recorder - "Digiter". A. G. Pieper, R. Q. Tillman. PB121220, Mimeo\$.50. | 4779
U
6/56 | Static and Dynamic Calibration of a Photoelastic Model Material, CR-39. A. B. J. Clark. PB121269, Mimeo\$.50. | 4794
U
9/56 | Evaluation of the AN/SPS-3 (XB-1) Radar at the Chesapeake Bay Annex. J. N. Libby, I. C. Lantz. |
| 4763
U
5/56 | Onset of Fast Crack Propagation in High Strength Steel and Aluminum Alloys. G. R. Irwin. PB121224, Mimeo\$.50. | 4780
U
7/56 | An Analysis of the DC and Pulsed Thermionic Emission from BaO. G. A. Haas. PB121270, Mimeo\$.50. | 4794
U
8/56 | Supplement. Evaluation of the AN/SPS-3 (XB-1) Radar at the Chesapeake Bay Annex. J. N. Libby, I. C. Lantz. |
| 4764
U
8/56 | Amplification of Plasma Waves by an Electron Beam. L. R. White, A. J. Ruhlig. PB121223, Mimeo\$.50. | 4782
U
7/56 | Effect of Magnetocrystalline Anisotropy on the Magnetic Spectra of Mg-Fe Ferrites. G. T. Rado, V. J. Folen, W. H. Emerson. | 4796
U
7/56 | The Effect of an Automatic Gain Control on the Tracking Performance of a Monopulse Radar. B. L. Lewis, A. J. Stecca, D. D. Howard. |
| 4765
U
6/56 | A Low Noise 215-225 Mc Converter. L. Hoffman. PB121214, Mimeo\$.1.80, Ph\$.1.80. | 4783
U
8/56 | The Dielectric Properties and Molecular Structures of Certain Partially Fluorinated Esters. J. B. Romans, T. D. Callinan. PB121293, Mimeo\$.1.00. | 4797
U
7/56 | Effect of Vacuum Degassing on Properties of Various Aluminum Alloys. E. E. Layne, H. F. Bishop. PB121325, Mimeo\$.50. |
| 4769 | Cancelled. | 4784
U
8/56 | Dielectric Lenses for Scanning. R. M. Brown, Jr. PB121294, Mimeo\$.75. | 4798
U
8/56 | Operation of NRL-1 Carbon Steel Loop at the Materials Test Reactor. V. J. Linneboom, G. E. MacVeigh, H. S. Dreyer, G. M. Dinnick. PB121319, Mimeo\$.3.00, Ph\$.6.30. |
| 4770
U
7/56 | Target Noise Simulator - Closed-Loop Tracking. A. J. Stecca, N. V. O'Neal. | 4786
U
7/56 | Atmospheric Refraction Over Water. H. W. Yates. PB121295, Mimeo\$.50. | 4799
U
7/56 | Typical Overload Behavior of Low-Power Traveling-Wave-Tube Amplifiers. G. P. Ohman, F. A. Kittredge. PB121039, Mimeo\$.2.40, Ph\$.6.30. |
| 4771 | Cancelled. | 4787
U
7/56 | The Reflectivity of the Sea and Land at Centimeter and Millimeter Wavelengths. C. R. Grant, B. S. Yaplee. | | |

- | | | | | | |
|--------------------|--|--------------------|---|--------------------|--|
| 4802
U
8/56 | Multiple Mode Excitation of the Trimode Turnstile Waveguide Junction. R. S. Potter. PB121040, Ph\$50. | 4814
U
9/56 | Gas Gain in the Proportional Counter. T. A. Chubb. PB121371, Mimeo\$75. | 4828
U
9/56 | Guided Missile Electrical Systems, Part III - An Analysis of Performance Reliability in Terms of Voltage and Frequency. B. J. Wilson. |
| 4803
U
7/56 | Mechanism of Linseed Oil Film Degradation Under Ultraviolet Irradiation. S. B. Crecellius, R. E. Kagarise, A. L. Alexander. PB121330, Mimeo\$50. | 4816
U
9/56 | The Use of Hydrophobic Rings for the Measurement of Interfacial Tensions. - The Relation Between the Interfacial Tensions of Fuels and their Water-Tolerance Characteristics. J. A. Krynskiy, W. D. Garrett. PB121397, Mimeo\$75. | 4829
U
8/56 | Marine Borer Control, Part VI - Evaluation of Creosote After the Removal of Various Distillation Fractions. T. R. Sweeney, T. R. Price. PB121433, Mimeo\$50. |
| 4804
U
7/56 | A Thin Dielectric Film of Bentonite Clay for Cathode-Ray Storage Tubes. F. H. Harris. PB121328, Mimeo\$50. | 4817
U
9/56 | Properties of Bolts under Shock Loading. E. W. Clements. PB121372, Mimeo\$1.25. | | |
| 4806
U
8/56 | Reactions of Esters of Phosphorus Acids with Metallic Compounds. R. B. Fox, D. L. Venezky. PB121210, Mimeo\$75. | 4818
U
8/56 | A Preliminary Study on the Correlation of Atmospheric Transmission with Back-Scattering. J. A. Curcio, G. L. Knestrick, L. F. Drummeter. PB121373, Mimeo\$4.80. | | |
| 4807
U
8/56 | The Disorder of Polyatomic Solids by Neutrons. E. G. Harris. PB121202, Mimeo\$50. | 4819
U
9/56 | A Starting-Current Analysis of Monotrons with a Cylindrical TM_{01n} Resonator. H. D. Arnett, A. J. Ruhlig. PB121402, Mimeo\$50. | 4833
U
10/56 | Calculated Efficiencies of NaI Crystals. E. A. Wolicki, R. Jastrow, F. Brooks. PB121419, Mimeo\$1.00. |
| 4808
U | Noise Generation in High-Power Microwave Gas Discharges. R. C. Jones, W. J. Graham. PB121338, Mimeo\$75. | 4821
U
10/56 | Proton Resonances in Na^{23} . J. W. Teener, L. A. Beach. PB121407, Mimeo\$50. | | |
| 4809
U
8/56 | A Search for the Atmospheric and Cosmic Microwave Spectrum of OH. A. H. Barrett, A. E. Lilley. | 4822
U
8/56 | Marine Borer Control. Part V - Studies on the Leaching of Creosote from Wood. T. R. Sweeney, T. R. Price, R. A. Saunders. PB121410, Mimeo\$50. | 4835
U
9/56 | An Analogue System for Computing Correlation Coefficients. J. M. Headrick, J. L. Ahearn, Jr. PB121482, Mimeo\$50. |
| 4812
U
10/56 | Rate Measurement of Marine Chrometers, Gimbal Mounted Chrometer Watches, and Non-Gimbal Navigating Watches under Controlled Climatic Conditions. Part V - The Interval-Record and Chronograph Methods of Rate Measurement. H. M. Suski. PB111940, Mimeo\$2.00. | 4823
U
8/56 | The Oxidation of Activated Carbons at Room Temperature. R. E. Vander Vennen. PB121411, Mimeo\$50. | 4836
U
10/56 | A New Dielectric Liquid for Impregnating Fixed Paper Capacitors. T. D. Callinan, J. B. Romans. |
| 4813
U
1956 | Nuclear Power Problems Supported Jointly by ONR and BuShips Code 1500; Progress Report for the Period July 1, 1956 to August 15, 1956. | 4824
U
9/56 | Solubility and the Products of Reaction between Iron and Water at 26°C and 300°C. V. J. Linnenbom, J. I. Hoover, H. S. Dreyer. PB121409, Mimeo\$50. | 4838
U
10/56 | Aluminum Coatings on Stainless Steel. J. E. Srawley. PB121487, Mimeo\$1.25. |
| | | 4825
U
9/56 | Whistling Atmospheric. H. E. Dinger. PB121408, Mimeo\$1.25. | 4839
U
10/56 | Effect of Baking on Delayed Fracture of Electroplated Ultra High-Strength Steel. B. F. Brown. PB121498, Mimeo\$50. |

Numerical Index

4840 - 4877

- | | | | | | | | | |
|------|---|--|------|--|---|------|--|---|
| 4843 | Microwave Stepped-Index Luneberg Lenses.
U
10/56 | G. D. M. Peeler,
H. P. Coleman, M. C. Volk,
W. R. Cuming.
PB121561, Mimeo\$.75. | 4852 | A Sintered-Plate Nickel-Cadmium Cell. G. W. Work.
U
10/56 | PB121533, Mimeo\$.50. | 4865 | Electron Transport Properties of Dilute Binary Magnesium Alloys.
U
12/56 | E. I. Salkovitz, A. I. Schindler,
E. W. Kammer.
PB121581, Mimeo\$.50. |
| 4844 | Alkaline Storage Batteries, The Self-Discharge of the Positively Charged Nickel Oxide Electrode. Part I - The Role of Water in the Process. A. L. Pitman, G. W. Work.
U
10/56 | PB121430, Mimeo\$.50. | 4853 | Lithium Chloride Solution for Fire Extinguishers Exposed to Low Temperatures.
U
10/56 | A. W. Bertschy,
H. E. Moran, R. L. Tuve.
PB111913, Mimeo\$.50. | 4866 | A Study of Current Distribution in Cathodic Protection.
U
1/57 | E. E. Nelson. |
| 4845 | Alkaline Storage Batteries, the Self-Discharge of the Positively Charged Nickel Oxide Electrode. Part II - Potential as a Function of Time on Open Circuit and as a Function of the Active Oxygen on the Nickel Oxide Plates. A. L. Pitman, G. W. Work.
U
10/56 | PB121463, Mimeo\$.50. | 4854 | Nuclear Power Problems Supported Jointly by ONR and BuShips Code 1500; Progress Report for the Period 15 August 1956 to 1 October 1956.
U
1956 | | 4870 | Measurements and Estimates of Sky Brightness for all Altitudes of the Sun for Various Altitudes of the Observer above the Surface of the Earth.
U
2/57 | E. O. Hulburt.
PB121661, Mimeo\$.50. |
| 4846 | The Relation of Heat Treatment to the Dynamic Properties of Some Carbon Steels.
U
11/56 | R. C. Smith.
PB121514, Mimeo\$.50. | 4855 | Phosphorescent and Fluorescent Material. L. H. Dawson.
U
12/56 | PB121541, Mimeo\$1.25. | 4871 | Instrumentation for Measurement of Electromagnetic Propagation through Flames.
U
12/56 | F. E. Boyd, N. W. Guinard,
R. G. Cumings,
D. C. Rohlf. |
| 4851 | Marine Borer Control - Part VII - Evaluation of Petroleum-Ether-Soluble Fractions and Distillation Fractions of Creosote.
U
10/56 | T. R. Price, T. R. Sweeney.
PB121532, Mimeo\$.50. | 4856 | The Effect of Air Exposure on Various Cathodes for Demountable Vacuum Systems.
U
11/56 | G. A. Haas, J. T. Jensen, Jr.,
PB121563, Mimeo\$.50. | 4872 | One Method for Measuring the Solvent Resistance of Crystal-to-Crystal Adhesive Bonds.
U
11/56 | B. J. Faraday, D. J. G. Grogan.
PB121582, Mimeo\$.50. |
| | | | 4857 | Properties of Molding Sands under Conditions of Gradient Heating. N. C. Howells, R. E. Morey, H. F. Bishop.
U
10/56 | PB121540, Mimeo\$.50. | 4876 | Nuclear Power Problems Supported Jointly by ONR and BuShips Code 1500; Progress Report for the Period October 1, 1956 to December 1, 1956.
U
1956 | |
| | | | 4858 | Exact and Approximate Treatments of the One-Dimensional Blast Wave.
U
11/56 | E. G. Harris.
PB121562, Mimeo\$.50. | | | |
| | | | 4859 | The Synthesis and Antioxidant Activity of Some New Poly-fluoroalkyl Sulfides and Selenides.
U
11/56 | P. D. Faurote, C. M. Murphy,
J. G. O'Rear, H. Ravner.
PB121568, Mimeo\$.50. | | | |
| | | | 4861 | Further Studies on Stainless-Steel Hot Cracking.
U
11/56 | P. P. Puzak, H. Rischall.
PB121569, Mimeo\$.50. | | | |
| | | | 4862 | The Upper Speed Threshold for the Discrimination of Visual Movement as a Function of Stimulus Luminance.
U
11/56 | R. H. Brown.
PB124542, Mimeo\$2.40, Pn\$3.30. | | | |
| | | | 4863 | The Effectiveness of a Collimated Reticle as an Aid to Visual Detection of Aircraft at High Altitude.
U
11/56 | R. H. Brown.
PB121429, Mimeo\$.50. | | | |
| | | | 4864 | Comparison-Type Receivers for White Noise Radiation at 0.86 CM Wavelength. J. E. Gibson.
U
12/56 | PB121571, Mimeo\$1.00. (Second printing with added notes July 6, 1961) | | | |

- | | | | | | |
|------|---|------|---|------|--|
| 4879 | Tactical to Practical in Preliminary Servo-System Design. C. F. White. | | | | |
| U | | | | | |
| 2/57 | PB124081, Mimeo\$2.40, Ph\$3.30. | | | | |
| 4881 | Design of a 500-Foot-Diameter Faceted Paraboloidal Antenna. W. R. Ferris. | 4895 | Design of Minimum Weight Magnetic Cores. J. W. Kallander. | 4906 | Electroplating Baths for Ultra-High-Strength Steels. Part I - Use of Aliphatic Amino Acids in Cadmium Baths to Reduce Hydrogen Embrittlement. P. N. Viannes, S. W. Strauss, B. F. Brown. |
| U | | U | | U | |
| 1/57 | PB121475, Mimeo\$1.25. | 1/57 | PB121776, Mimeo\$0.50. | 3/57 | PB121836, Mimeo\$0.50. |
| 4882 | Interim Report on Studies of the Effects of Geometry on the Properties of Gun-Metal (88-8-4) Castings. W. H. Johnson. | 4896 | Flux Reversal in a Superalloy Core by Constant-Current Pulses. W. H. Lucke. | | |
| U | | U | | | |
| 1/57 | PB121769, Mimeo\$0.50. | 6/57 | PB124929, Mi\$2.70, Ph\$4.80. | | |
| 4885 | The Silver Oxide-Zinc Alkaline Primary Cell. Part IV - Anodic Characteristics of Zinc Alloys. C. M. Shephard. | 4898 | The Measurement of Atmospheric Attenuation at 4.3 MM Wavelength. R. J. Coates. | 4911 | Project Clinker Report No. 5. An Amplidyne Power Amplifier for use with Chemical Paper Recorders. N. L. Clark. |
| U | | U | | U | |
| 2/57 | PB121744, Mimeo\$0.75. | 4/57 | PB124472, Mi\$2.40, Ph\$3.30. | 4/57 | |
| 4886 | Fallout Protection Afforded by Standard Enlisted Men's Barracks. C. W. Malich, L. A. Beach. | 4899 | Upper Atmospheric Research Report No. XXVII, Aerobee-Hi Report Number 4, The NRL-39, NRL-42, NRL-46, and NRL-50 Firings. E. C. Pressly, J. W. Townsend, Jr. | 4912 | Permanent-Magnet Generators. Part I - Theory. D. J. Hanrahan, D. S. Toffolo. |
| U | | U | | U | |
| 3/57 | PB121778, Mimeo\$0.75. | 4/57 | PB124676, Mi\$2.40, Ph\$3.30. | 3/57 | PB121862, Mimeo\$0.50. |
| 4887 | Electron Spin Resonance in Carbons. L. M. Matarrese, L. S. Singer, R. E. Vander Vennen. | 4902 | Characteristics of Radar Sea Clutter. Part I - Persistent Target-Like Echoes in Sea Clutter. F. C. Macdonald. | 4913 | The Relationships Between Magnification and Course Frequency in Compensatory Aided Tracking. J. H. Bowen, R. Chernikoff. |
| U | | U | | U | |
| 3/57 | PB121790, Mimeo\$0.75. | 3/57 | PB124676, Mi\$2.40, Ph\$3.30. | 4/57 | PB121876, Mimeo\$0.50. |
| 4888 | Applications of the Luneberg Lens. J. I. Bohnert, H. P. Coleman. | 4903 | Infrared Spectra of Some Salts of Organophosphorus Acids. L. W. Daasch. | 4916 | An Experimental Study of Butt-Joined ADP Crystal Plates. B. J. Faraday, D. J. G. Gregan. |
| U | | U | | U | |
| 3/57 | PB121809, Mi\$2.70, Ph\$4.80. | 3/57 | PB121835, Mimeo\$0.75. | 4/57 | PB121878, Mimeo\$0.75. |
| 4891 | The Current-Voltage Relationship of Galvanic Anode Arrays in Cathodic Protection. L. J. Waldron, M. H. Peterson. | 4904 | Nuclear Power Problems Supported Jointly by ONR and BuShips Code 1500; Progress Report for the Period December 1, 1956 to February 1, 1957. | 4917 | The Influence of Field of View on Measurements of Atmospheric Transmission. C. H. Duncan. |
| U | | U | | U | |
| 2/57 | PB121821, Mimeo\$0.50. | 1957 | | 4/57 | PB124913, Mi\$2.70, Ph\$4.80. |
| | | | | 4918 | Thermionic and Semiconducting Properties of (Ag) - Cs ₂ O, Ag, Cs. J. E. Davey. |
| | | | | U | |
| | | | | 6/57 | PB124931, Mi\$2.70, Ph\$4.80. |
| | | | | 4919 | Explosion-Bulge-Test Performance of Low-Carbon Ni-Cr-Mo-B Quenched and Tempered Steel Weldments. P. P. Puzak. |
| | | | | U | |
| | | | | 5/57 | |

- 4920 Electrical Resistivity of
U Nickel-Palladium Alloys.
4/57 A. W. Oberhauser,
A. L. Schindler.
PB121902, Mimeo\$.50.
- 4925 Fracture Characteristics of
U Copper-Base Alloys.
4/57 N. C. Howells, E. A. Lange.
PB121933, Mimeo\$.50.
- 4927 Precision Instruments for
U Calibrating Radiometers
5/57 at 4.3 Millimeters Wavelength.
A. I. Reynard.
PB121947, Mimeo\$.50.
- 4928 Investigation of the Creep-
U Rupture Properties of
5/57 Mo-V Low-Alloy Steels.
P. Shahinian, J. R. Lane.
PB121953, Mimeo\$.75.
- 4929 Corrosion of Metals in Tropical
U Environments - Part I - Test
6/57 Methods used and Results
Obtained for Pure Metals and
a Structural Steel.
A. L. Alexander, B. W. Forgeson,
H. W. Mundt, C. R. Southwell,
L. J. Thompson.
PB121952, Mimeo\$ 1.25.
- 4931 Permanent-Magnet Generators,
U Part II - Design Considerations.
5/57 D. S. Toffolo, D. J. Hanrahan.
PB121946, Mimeo\$.75.
- 4932 Relation of Chemical Constitution
U to the Wetting and Spreading of
5/57 Liquids on Solids.
W. A. Zisman.
PB125376, Mimeo\$ 2.40, Ph\$ 3.30.
- 4933 The Use of Trimethoxyboroxine
U for the Extinguishment of Metal
7/57 Fires. Part I - Magnesium.
R. L. Tuve, R. L. Gipe,
H. B. Peterson, R. R. Neill.
PB121986, Mimeo\$ 1.25.
- 4934 Acoustical Vibrations from
U Rocket Motor Combustion
6/57 Processes. F. E. Boyd,
R. G. Cumings, N. W. Guinard.
PB132881, Mimeo\$ 2.40, Ph\$ 3.30.
- 4935 The Dynamic Stress Distribution
U Surrounding a Running Crack -
4/57 A Photoelastic Analysis.
A. A. Wells, D. Post.
PB121987, Mimeo\$ 2.70, Ph\$ 4.80.
- 4937 Inelastic Scattering of 2.6 Mev
U Neutrons from Fe⁵⁴, Fe⁵⁶, Fe⁵⁷,
6/57 W¹⁸³, and W¹⁸⁴. P. Shapiro,
R. W. Higgs.
PB125378, Mimeo\$ 2.40, Ph\$ 3.30.
- 4938 The Irradiation of Polyvinyl
U Methyl Ether with Electrons
8/57 and Gamma Rays to Form
Elastomers. D. Duffey.
PB131003, Mimeo\$ 1.00.
- 4940 Upper Atmosphere Research
U Report No. XXVIII - Performance
5/57 of a Rocket-Borne 7.75-MC
Transmitting Antenna in the
Ionosphere. J. E. Jackson,
A. D. Pickar.
PB125409, Mimeo\$ 2.70, Ph\$ 4.80.
- 4941 Lectures on the Dispersion
U Relations in Meson Field
5/57 Theory. R. L. Arnowitt.
PB125812, Mimeo\$ 4.80, Ph\$ 13.80.
- 4942 A Differential Thermal Analysis
U Apparatus for Temperatures up
5/57 to 1575°C. K. G. Skinner.
PB121999, Mimeo\$.50.
- 4943 Physical Properties of Mono-
U layers Adsorbed at the Solid/Air
7/57 Interface - Part I - Friction
and Wettability of Aliphatic
Polar Compounds and Effect
of Halogenation. O. Levine,
W. A. Zisman.
PB131013, Mimeo\$.75.
- 4944 On a Self-Consistent Field
U Method for a Completely
5/57 Ionized Gas. E. G. Harris.
PB125388, Mimeo\$ 2.70, Ph\$ 4.80.
- 4945 The Structures of the Dialkyl
U Phosphonates and Some of Their
5/57 Salts. L. W. Daasch.
PB125429, Mimeo\$ 2.40, Ph\$ 3.30.
- 4946 Physical Properties of Mono-
U layers Adsorbed at the Solid/Air
6/57 Interface. Part II - Mechanical
Durability of Aliphatic Polar
Compounds and Effect of
Halogenation.
O. Levine, W. A. Zisman.
PB131020, Mimeo\$.50.
- 4947 The Corrosive Effects of
U Protein-Type Foam-Forming
6/57 Concentrates on Common
Metals and Dissimilar Metal
Couples. H. B. Peterson,
J. C. Burnett.
PB131018, Mimeo\$.75.
- 4948 Hydrolytic Modification of
U Cellulose Caprate.
5/57 D. E. Field, R. B. Fox.
PB131021, Mimeo\$.50.
- 4953 Tables of Kinematics of Σ^+
U Hyperon Decays. R. G. Glasser,
6/57 G. A. Snow.
PB125634, Mimeo\$ 3.00, Ph\$ 6.30.
- 4954 Comparative Evaluation of Three
U Approaches to Helicopter Instru-
6/57 mentation for Hovering Flight.
J. S. Sweeney, A. W. Bailey,
J. F. Dowd.
PB121797, Mimeo\$.50.
- 4955 Infrared Absorption Studies of
U Some Halogenated Acetic Acids.
8/57 R. E. Kagarise.
PB131035, Mimeo\$ 1.25.
- 4956 Crack-Extension-Force Near a
U Riveted Stiffener.
10/57 J. P. Romualdi, J. T. Frasier,
G. R. Irwin.
PB131036, Mimeo\$.75.

- 4959 Rocket Motor Flame Light Intensity Versus Time. U
7/57 R. G. Cumings, N. W. Guinard, F. E. Boyd.
PB131037, Mimeo\$50.
- 4960 Upper Atmosphere Research Report No. XXXIX. Effect of Oblique Propagation Paths Upon the NRL Rocket Studies of the Ionosphere. J. E. Jackson. U
7/57 PB127333, Mi\$2.40, Ph\$3.30.
- 4961 An Analysis of Temperature Coefficients of Solubility in Dilute Liquid Metal Solutions. S. W. Strauss, J. L. White, B. F. Brown. U
6/57 PB131065, Mimeo\$75.
- 4962 Some Applications of Scattering Theory. A. H. Aitken. U
7/57 PB125895, Mi\$3.30, Ph\$7.80.
- 4964 The "Spring-Plasma" Model for Low Temperature Vibrational Spectra of Cubic Metals. U
8/57 C. B. Clark.
PB131080, Mimeo\$50.
- 4965 Atmospheric Radioactivity along the 80th Meridian, 1956. U
7/57 L. B. Lockhart, Jr., R. A. Baus, I. H. Blifford, Jr.
PB131081, Mimeo\$50.
- 4966 Atmospheric Attenuation at K-Band Radio Wavelengths. U
8/57 J. E. Gibson.
PB127333, Mi\$2.40, Ph\$3.30.
- 4967 The Feasibility of Using Wholly External Ultrasonics to Measure Fluid Flow within Thick-Walled Metal Pipes. U
11/57 V. A. Del Grosso, E. M. Spurlock.
PB131079, Mimeo\$1.25.
- 4968 The Friedel Theory of Thermoelectric Power Applied to Dilute Magnesium Alloys. U
7/57 E. I. Salkovitz, A. I. Schindler, E. W. Kammer.
PB131098, Mimeo\$50.
- 4970 Steady-State Creep of Crystals. U
8/57 J. Weertman.
PB131132, Mimeo\$50.
- 4974 The Electrical Resistivity of the Ni-Pd Alloy System Between 300°K and 730°K. A. I. Schindler, R. J. Smith, E. I. Salkovitz. U
7/57 PB131134, Mimeo\$3.75.
- 4975 Notes on Elementary Quantum Statistics. R. C. O'Rourke. U
10/57 PB131125, Mimeo\$5.50.
- 4976 Spectral Bandwidth of Backscatter Signals. U
8/57 G. K. Jensen, C. L. Uniacke.
- 4978 Study of the Oxide Cathode in Demountable Vacuum Systems. U
8/57 G. A. Haas, J. T. Jensen, Jr.
PB131129, Mimeo\$50.
- 4979 Helical Dislocations. U
8/57 J. Weertman.
PB131133, Mimeo\$50.
- 4984 Thermal Radiation of the Moon at 0.86-CM Wavelength. U
8/57 J. E. Gibson.
PB127884, Mi\$2.70, Ph\$4.80.
- 4985 An Experimental Distributed Power Amplifier. U
8/57 S. K. Meads.
PB131164, Mimeo\$50.
- 4986 The Development of New Foam-Compatible Dry Chemical Fire Extinguishing Powders. U
9/57 H. B. Peterson, R. L. Tuve, R. R. Neill, J. C. Burnett, E. J. Jablonski.
PB131165, Mimeo\$75.
- 4987 A Dial Display Incorporating a Data Reference Check and a Discrete Go-No-Go Error Indicator. U
8/57 A. W. Baldwin.
PB131173, Mimeo\$50.
- 4989 The Use of the Conoscope for the Inspection of Hot-Stretched Aircraft Glazing Materials. U
7/57 M. J. Kramer.
PB131174, Mimeo\$1.00.
- 4990 Heat-Transfer Studies on a Forced Convection Loop with Biphenyl and Biphenyl Polymers. U
11/57 C. T. Ewing, J. P. Stone, C. H. Blachly, B. E. Walker, R. R. Miller.
PB131214, Mimeo\$1.00.
- 4991 Scattering Properties of Wide Slots in a Parallel-Plate Transmission Line. A. J. Simmons. U
9/57 PB127753, Mi\$3.30, Ph\$10.80.
- 4993 Revised Proposal for Investigation of Self-Focusing Streams. U
7/57 W. H. Bennett.
PB131215, Mimeo\$50.
- 4994 Effect of the Cation on Micelle Formation by Sulfonates in Benzene. S. Kaufman, C. R. Singleterry. U
9/57 PB131228, Mimeo\$50.
- 4995 Project Vanguard Report No. 18 - Minitrack Report No. 1 - Phase Measurement. U
6/57 C. A. Schroeder, C. H. Looney, Jr., H. E. Carpenter.
PB131220, Mimeo\$1.00.
- 4996 Human Factors in the Design of Systems. H. W. Sinaiko, E. P. Buckley. U
8/57 PB131248, Mimeo\$1.50.
- 4997 Determination of Water in Jet Fuels and Hydrocarbons. U
9/57 W. D. Garrett, J. A. Krynskiy.
PB131247, Mimeo\$50.
- 4998 Measurements of Radiation from Venus at 3.15-CM Wavelength. C. H. Mayer, T. P. McCullough, R. M. Sloanaker. U
9/57 PB128721, Mi\$2.40, Ph\$3.30.

Numerical Index

5000B - 5043

- | | | | | | |
|-------|-------------------------------------|-------|---|-------|--------------------------------------|
| 5000B | Bibliography of Unclassified NRL | 5015 | The Effects of "Task-Induced | 5030 | The Determination of Halogen in |
| U | Formal Reports, Numbers 1000 | U | Stress" on Man-Machine System | U | Gasoline - The Analyses of Organo- |
| 12/58 | to 5000. | 9/57 | Performance. W. D. Garvey. | 10/57 | Halogen Compounds. W. D. Garrett, |
| | PB151428, Mimeo\$2.75. | | PB131278, Mimeo\$50. | | J. A. Krynisky. |
| | | | | | PB131327, Mimeo\$50. |
| 5001 | The Modulus of Rupture of zxt 45 | 5016 | Crosscorrelation Electronic | 5031 | Alkaline Storage Batteries. |
| U | ADP Crystals. B. J. Faraday, | U | Storage Radar. G. K. Jensen, | U | An Investigation of Nickel Oxide |
| 8/57 | D. J. G. Gregan. | 10/57 | F. M. Gager. | 12/57 | Positive Plate Characteristics. |
| | PB131255, Mimeo\$50. | | | | A. L. Pitman, G. W. Work. |
| | | | | | PB131329, Mimeo\$75. |
| 5002 | Corrosion of Metals in Tropical | 5017 | Radiation Protection Afforded by | 5032 | Electromechanical Plotting |
| U | Environments. Part 2 - | U | Barracks and Underground Shelters. | U | Board - 4 Foot by 4 Foot. |
| 12/57 | Atmospheric Corrosion of Ten | 9/57 | C. W. Malich, L. A. Beach. | 11/57 | H. G. Paine. |
| | Structural Steels. C. R. Southwell, | | PB131279, Mimeo\$1.25. | | PB132877, Mi\$40, Ph\$3.30. |
| | B. W. Forgeson, A. L. Alexander. | | | | |
| | PB131175, Mimeo\$75. | 5018 | Thermal Decomposition of Gaseous | 5033 | The Adsorption Spectrum from 0.5 |
| | | U | Borane Mixtures. S. H. Smith, | U | to 25 Microns of a 1000-Ft |
| | | 1/58 | R. R. Miller. | 9/57 | Atmospheric Path at Sea Level. |
| | | | | | H. W. Yates. |
| | | 5019 | Volumetric Scanning GCA Antenna | | PB132876, Mi\$2.40, Ph\$3.30. |
| | | U | Design. W. F. Gabriel, G. D. M. | 5034 | Investigation of Beta Phase |
| | | 11/57 | Peeler, H. P. Coleman, D. H. Archer. | U | "Recrystallization" in Ti-3% Al- |
| | | | PB131286, Mimeo\$1.50. | 11/57 | 5%Cr Alloy. K. B. Lloyd, |
| | | | | | E. J. Chapin. |
| | | 5021 | Radiation from Mars and Jupiter | | PB131338, Mimeo\$75. |
| | | U | at 3.15-CM Wavelength. | 5035 | Project Vanguard Report No. 21. |
| | | 9/57 | C. H. Mayer, T. P. McCullough, | U | Minitrack Report No. 2 - The |
| | | | R. M. Sloanaker. | 9/57 | Mark II Minitrack System. |
| | | | PB131284, Mimeo\$50. | | R. L. Easton. |
| | | 5022 | Removal of CO ₂ from Submarine | | PB131330, Mimeo\$1.00. |
| | | U | Atmospheres by Amine Resins - | 5036 | A Comparison of the Creep-Rupture |
| | | 11/57 | A Feasibility Study. | U | Properties of Nickel in Air and in |
| | | | S. B. Crecelius, W. N. Crofford, III, | 10/57 | Vacuum. P. Shahinian, |
| | | | W. E. McConaughy. | | M. R. Achter. |
| | | | | | PB131344, Mimeo\$50. |
| 5006 | Nuclear Power Problems Supported | 5024 | Valveless Pulsejet De-Icer | 5037 | Temperature and Stress Dependence |
| U | Jointly by ONR and BuShips Code | U | Application. | U | of the Atmosphere Effect of |
| 1957 | 1500. Progress Report for the | 11/57 | M. A. Persechino. | 10/57 | Nichrome V. |
| | Period of 1 June to 1 August 1957. | | | | P. Shahinian, M. R. Achter. |
| | | | | | PB131339, Mimeo\$50. |
| 5007 | Notch Ductility of Normalized | 5025 | Naval Research Laboratory | 5039 | Feedback System Testing. |
| U | HTS Steel. P. P. Puzak. | U | Research Reactor; Part III - | U | C. F. White. |
| 9/57 | PB128492, Mi\$2.40, Ph\$3.30. | 10/57 | An Eight-Decade Logarithmic | 11/57 | PB131345, Mimeo\$1.00. |
| | | | Amplifier for Nuclear Reactor | | |
| | | | Instrumentation. G. F. Wall, | | |
| | | | M. P. Young. | | |
| | | | PB131303, Mimeo\$50. | | |
| 5008 | Weak Intermolecular Interactions | 5026 | Static Electrification of Steel | 5041 | Fission Product Radioactivity in the |
| U | and the Infrared Spectra of Binary | U | Cartridge Casings with Dielectric | U | Air Along the 80th Meridian - |
| 9/57 | Solutions. E. E. Ferguson. | 10/57 | Coatings and the MK-47 Electric | 11/57 | January - June 1957. |
| | PB132879, Mi\$1.80, Ph\$1.80. | | Primer. K. W. Bewig. | | L. B. Lockhart, Jr., R. A. Baus, |
| | | | PB131304, Mimeo\$50. | | I. H. Blifford, Jr. |
| | | 5027 | Methods of Accelerated Weather | | PB129034, Mi\$2.40, Ph\$3.30. |
| | | U | Deterioration for Fluorescent | | |
| | | 11/57 | Paints. F. M. Noonan, J. E. Cowling. | | |
| | | | PB131302, Mimeo\$75. | | |
| 5013 | The Utility of Quickening Tech- | 5029 | Secondary Emission Ratio of | 5043 | The Maintenance of Fractional |
| U | niques in Improving Tracking | U | Storage Tube Insulator Films. | U | Degree Phasing Between Two |
| 9/57 | Performance with a Binary Display. | 11/57 | G. L. Stambach. | 11/57 | Separate AC Voltages or Rotating |
| | P. A. Rund, H. P. Birmingham, | | PB131328, Mimeo\$50. | | Shafts. S. F. Johnson. |
| | C. L. Tipton, W. D. Garvey. | | | | PB131359, Mi\$2.70, Ph\$4.80. |
| | PB128553, Mi\$1.80, Ph\$1.80. | | | | |
| 5014 | Investigation of Solid-Propellant | | | | |
| U | Fuel Cartridges for Fire Exting- | | | | |
| 10/57 | uishment at Polar Temperatures. | | | | |
| | J. K. Musick, J. A. Grand. | | | | |
| | PB131275, Mimeo\$50. | | | | |

5044 U 12/57	The Airdrag Anemometer. W. A. Von Wald, Jr. PB131533, Mimeo\$.50.	5059 U 12/57	Automatic Data Reduction System - Amplitude-Distribution and Corre- lation Analyses. A. Shapiro. PB131395, Mimeo\$.50.	5074 U 1/58	A Sweep Reference Voltage Generator. W. D. Dahl. PB129802, Mi\$.3.00, Ph\$.6.30.
504 U 1957	Nuclear Power Problems Supported Jointly by ONR and BuShips Code 1500, Progress Report for the Period August 1 to October 1, 1957.	5060 U 2/58	The Measurement of Insulation Conductivity. E. F. Turner, E. L. Brancato, W. Price. PB131420, Mimeo\$.75.	5076 U 2/58	Upper Atmosphere Research Report No. XXXI, Aerobee-Hi Report Number 5, The NRL-45, NRL-47, NRL-48, NRL-40, NRL-41, and NRL-44 Firings. E. C. Pressly, J. W. Townsend, Jr.
5051 U 1/58	Fundamentals in Noise Source Calibrations at Microwave Frequencies. J. E. Sees. PB131367, Mimeo\$.75.	5061 U 12/57	A Toxic-Agent Vapor Source for the Demonstration of Chemical Warfare Detection Equipment. W. S. Brown. PB131401, Mimeo\$.50.	5077 U 4/58	Naval Research Laboratory Research Reactor, Part IV - Control System. M. P. Young, G. F. Wall. PB121879, Mimeo\$.2.75.
5052 U 12/57	Comparison of Solutions to the One-Velocity Neutron Diffusion Problem. L. A. Beach, R. B. Theus, P. Shapiro, R. C. O'Rourke, W. R. Faust, B. Lepson. PB129100, Mi\$.3.30, Ph\$.7.80.	5064 U 1/58	A Review of the Development of Visual Aids for Operations in Night Replenishment at Sea. G. T. Hicks, B. G. Kroger. PB131421, Mimeo\$.50.	5080 U 3/58	On the Relative Importance of Certain Surveillance Information Categories in Air Defense. D. F. Wilson.
5053 U 12/57	Physical Properties of Monolayers Adsorbed at the Solid/Air Interface. Part III - Friction and Durability of Films on Stainless Steel. R. L. Cottingham, E. G. Shafrin, W. A. Zisman. PB131493, Mimeo\$.50.	5065 U 1 58	Project Vanguard Report No. 24, Minitrack Report No. 4, The Satellite Telemetry Receiver System. V. R. Simas. PB131396, Mimeo\$.50.	5081 U 1, 58	Traversal of the Intermediate State of a Superconductor by Adiabatic Magnetization. R. L. Dolecek. PB131485, Mimeo\$.50.
5055 U 12/57	Project Vanguard Report No. 23, Minitrack Report No. 3, Receiver System. V. R. Simas, C. A. Bartholomew. PB131390, Mimeo\$.1.00	5066 U 3 58	Project Vanguard Report No. 25, Firing Time of Satellite Launching Vehicle from Cape Canaveral, Florida, as Related to Solar Illumi- nation and Satellite Visibility. J. W. Siry, R. H. Wilson, M. DeNovens, M. P. Hann, E. L. Lady. PB131394, Mimeo\$.2.00.	5082 U 3/58	A Solid-State Commutating and Pulse-Width Encoding Circuit. W. H. Lucke. PB131486, Mimeo\$.75.
5058 U 12/57	An Investigation of Cracked A-212 Catapult Steam Receivers. A. J. Babecki, P. P. Puzak.	5068 U 1/58	The Dielectric Plate Array: A New Endfire Antenna. J. O. Pullman. PB131473, Mimeo\$.75.	5083 U 5/58	A Two-Meter Positive-Ion Beam Electrostatic Analyzer. R. O. Bondelid, C. A. Kennedy. PB131487, Mimeo\$.2.00.
		5069 U 1/58	A Study of Controlled Acoustical Experiment in a Water Tank at 213 KC. W. G. Neubauer. PB131474, Mimeo\$.50.	5084 U 1957	Nuclear Power Problems Supported Jointly by ONR and BuShips Code 1500, Progress Report for the Period 10 October to 1 November 1957
		5070 U 12/57	Bacterial Electrophoresis Studies. S. B. Crecelius, J. M. Leonard. PB131484, Mimeo\$.75.	5085 U 2/58	Sorption of Phenylmercuric Acetate by Aspergillus Niger. D. E. Klemme, J. M. Leonard. PB131490, Mimeo\$.50.
		5071 U 2/58	Nondestructive Readout of Multilevel Magnetic Memory. R. L. Van Allen, C. B. House. PB131475, Mimeo\$.75.	5086 U 4/58	Satellite Launching Trajectory Calculations. General Description of NAREC Programs for the Two- Dimensional Case. J. L. Hammersmith. PB131491, Mimeo\$.50
		5072 U 1/58	Visibility in an Empty Visual Field. R. H. Brown, J. M. Carl. PB131476, Mimeo\$.50.		

Numerical Index

5087 - 5132

- | | | | | | |
|-------------------|--|-------------------|---|-------------------|---|
| 5087
U
2/58 | Upper-Atmosphere Research Report No. XXXII, History of the Upper-Air Rocket-Research Program at the Naval Research Laboratory, 1946-1957. J. W. Townsend, Jr., H. Friedman, R. Tousey.
PB131521, Mimeo\$1.50. | 5102
U
5/58 | Project Vanguard Report No. 26. Preliminary Phases of the Vanguard Vibration Program.
R. E. Blake, M. W. Oleson. | 5120
U
4/58 | The Crack-Extension-Force for a Crack at a Free Surface Boundary. G. R. Irwin.
PB132875, Mi\$2.40, Ph\$3.30. |
| 5088
U
3/58 | Interferometric Measurement of the Infrared Dispersion of Liquids. R. E. Kagarise, J. W. Mayfield.
PB131522, Mimeo\$.75. | 5103
U
3/58 | Scanning Arrays Using the Flat Spiral Antenna. J. A. Kaiser.
PB130193, Mi\$2.70, Ph\$4.80. | 5121
U
4/58 | Sodium Silicates for the CO ₂ Process. E. A. Lange, R. E. Morey.
PB131642, Mimeo\$.50. |
| 5089
U
2/58 | Cold-Cured Piezoelectric Ceramics. A. D. Burbage, M. J. Riley.
PB131523, Mimeo\$.50. | 5104
U
5/58 | Visual Acuity as a Function of Intensity for Different Hues. J. H. Berbert.
PB131587, Mimeo\$.75. | 5122
U
4/58 | A Standardized X-Ray Field Range. H. M. Childers, A. Brodsky, A. E. Nash.
PB131643, Mimeo\$.50. |
| 5090
U
2/58 | Permanent-Magnet Generators. Part III. D. J. Hanrahan, D. S. Toffolo. | 5105
U
3/58 | Evaluation of Five Chemically Pure Barium Titanate Samples by Their Differential Thermal Analysis Characteristics. K. G. Skinner. | 5123
U
4/58 | Theory of Creep of Dispersion-Hardened Alloys. J. Weertman.
PB131675, Mimeo\$.50. |
| 5090
U
9/58 | Appendix E. Permanent-Magnet Generators, Part III. D. J. Hanrahan, D. S. Toffolo. | 5106
U
3/58 | The Effect of Corrosion and Growth on the Life of Cycling-Lead-Acid Cells. J. J. Lander, A. C. Simon, E. L. Jones.
PB131588, Mimeo\$.50. | 5124
U
4/58 | Iron-Chromium-Aluminum Alloys. J. E. Srawley.
PB131676, Mimeo\$.50. |
| 5091
U
3/58 | Electrochemical Mechanisms of Noble-Metal/Hydrogen Systems, Part I - Platinum. S. Schuldiner.
PB131526, Mimeo\$.100. | 5107
U
4/58 | Aircraft Collision-Avoidance System Requirements. P. J. LaRochelle, R. E. Brescia.
PB131589, Mimeo\$.125. | 5127
U
4/58 | Crack Propagation Tests of High-Strength Sheet Steels Using Small Specimens. J. E. Srawley, C. D. Beachem.
PB131682, Mimeo\$.100. |
| 5092
U
2/58 | A Point-Light-Source Projection Display for Air Traffic Control. R. J. Lampkin, M. F. Williams.
PB131524, Mimeo\$.50. | 5110
U | Cancelled. | 5128
U
3/58 | Digital Computer Control of a Radio Telescope for Tracking the Sun, Moon, and Planets. B. Wald. |
| 5093
U
2/58 | A Simple P/T Aerometer. C. C. Minter.
PB131527, Mimeo\$.50. | 5111
U | Cancelled. | 5129
U
5/58 | Electrochemical Mechanisms of Noble-Metal/Hydrogen Systems, Part II. Palladium. J. P. Hoare, G. W. Castellan, S. Schuldiner.
PB131683, Mimeo\$.125. |
| 5094
U
2/58 | Effect of Length of Observing Time on Earth Satellite Visibility. W. D. Garvey, J. B. Hanson, I. S. Gullledge.
PB131528, Mimeo\$.50. | 5112
U | Cancelled. | 5130
U
5/58 | Ground-Based Observations of the Vertical Atmospheric Haze Structure. G. L. Knestrick.
PB132000, Mi\$2.40, Ph\$3.30. |
| 5095
U
2/58 | The Influence of the Type of Glass Used in Studies of Distillate Fuel Stability. J. G. Christian, J. E. Johnson, H. W. Carhart.
PB131529, Mimeo\$.50. | 5114
U
4/58 | The 1954 Eclipse Measurement of the 8.6 MM Solar Brightness Distribution. R. J. Coates, J. E. Gibson, J. P. Hagen.
PB130310, Mi\$2.40, Ph\$3.30. | 5131
U
5/58 | The Energy Distribution of Neutrons Produced by a Thermonuclear Reaction. W. R. Faust, E. G. Harris.
PB132453, Mi\$1.80, Ph\$1.80. |
| 5096
U
2/58 | Improvements in the Vibrating Condenser Method of Measuring Contact Potential Differences. K. Bewig.
PB131530, Mimeo\$.50. | 5115
U
1958 | Nuclear Power Problems Supported Jointly by ONR and BuShips Code 1500. Progress Report for the Period 1 December 1957 to 1 February 1958. | 5132
U
5/58 | An Evaluation of the Operational and Psychological Effects of a Broad-band Blue Illumination System in a CIC Mockup. R. Z. Hughes, R. F. Chaillet.
PB132433, Mi\$2.70, Ph\$4.80. |
| 5098
U
4/58 | The Strength of Glass. J. A. Kies.
PB131532, Mimeo\$.75. | 5116
U
5/58 | A New Method for the Analysis of Slow-Bend Fracture Tests. R. M. Trimble.
PB130315, Mi\$2.40, Ph\$3.30. | | |

- 5133 The Effect of Atmosphere on Creep-
U Rupture Properties of a Nickel-
5/58 Chromium-Aluminum Alloy.
P. Shahinian, M. R. Achter.
PB131735, Mimeo\$4.50.
- 5134 Cancelled.
- 5135 The Electrochemistry of the Lead
U Anode in Aqueous Solutions, a
6/58 Review. J. Burbank.
- 5136 A Standard Video Signal Simulator.
U M. J. Daugherty.
6/58 PB132434, Mi\$2.70, Ph\$4.80.
- 5137 Several Methods of Solving the Heat
U Conduction Equation for Steady-
5/58 State One-Dimensional Heat Flow
in Finite Cylinders. R. E. Kidwell.
PB132873, Mi\$2.40, Ph\$3.30.
- 5138 A High-Temperature Vacuum and
U Controlled Environment Fatigue
5/58 Tester. G. J. Danek, M. R. Achter.
PB131737, Mimeo\$4.50.
- 5139 A Study of the Characteristics of
U Foam-Water Sprinkler Systems in
6/58 Controlling Full-Scale Fires.
E. J. Jablonski, H. B. Peterson,
R. L. Tuve.
PB131740, Mimeo\$1.25.
- 5140 Cast Age-Hardenable Austenitic
U Steels. E. A. Lange, N. C. Howells,
5/58 A. Bukowski.
PB131733, Mimeo\$4.50.
- 5142 Naval Research Laboratory
U Research Reactor. Part V - Effects
6/58 of Air Voids and Fuel-Free
Regions. K. W. Marlow,
E. I. Nowstrup, R. H. Vogt.
PB131734, Mimeo\$4.75.
- 5143 Further Studies on the Correlation
U of Backscattering with Atmospheric
6/58 Transmission. J. A. Curcio,
G. L. Knestrick, T. H. Cosden.
PB132823, Mi\$2.70, Ph\$4.80.
- 5144 Thermal Conductivity of Salt "A."
U J. R. Spann, C. T. Ewing,
4/58 B. E. Walker, R. R. Miller.
- 5145 Nuclear Power Problems Supported
U Jointly by ONR and BuShips Code
1958 1500. Progress Report for the
Period 1 February 1958 to
1 April 1958.
- 5146 An Air Traffic Control Color
U Display. M. F. Williams,
6/58 A. F. Thornhill.
PB132824, Mi\$2.40, Ph\$3.30.
- 5147 Fungus Inhibitive Properties of
U Organic Compounds: Part V -
6/58 Iodoacetates and Iodoacetamides.
D. E. Klemme, J. M. Leonard.
PB132837, Mi\$2.40, Ph\$3.30.
- 5149 New Techniques for Applying the
U Microscope to Problems of Battery
6/58 Research and Development.
A. C. Simon, E. L. Jones.
PB132826, Mi\$3.00, Ph\$6.30.
- 5150 A New Thermal Conductivity Leak
U Detector and Its Applications.
5/58 C. C. Minter.
PB131774, Mimeo\$4.50.
- 5151 Lunar Radiation at a Wavelength of
U 2.2 CM. C. J. Grebenkemper.
6/58 PB130503, Mi\$2.40, Ph\$3.30.
- 5152 Corrosion Studies in Dynamic
U Aqueous Systems at Elevated
6/58 Temperature and Pressure.
M. Krulfeld, M. C. Bloom,
R. E. Seebold.
PB131775, Mimeo\$4.50.
- 5153 Corrosion of Metals in Tropical
U Environments. Part 3 - Underwater
8/58 Corrosion of Ten Structural
Steels. B. W. Forgeson,
C. R. Southwell, A. L. Alexander.
PB131780, Mimeo\$4.75.
- 5156 A Method of Controlling Gain and of
U Reducing Overload Pulse Distortion
6/58 in a Traveling-Wave Tube.
E. E. Atkinson.
PB131782, Mimeo\$4.50.
- 5158 Rapid Determination of Vanadium
U in Navy Special Fuel Oil by X-Ray
7/58 Fluorescence. M. B. Cavanagh,
R. M. Roe.
PB131788, Mimeo\$4.50.
- 5159 The Suitability of Platinum,
U Molybdenum, Tantalum, and Tung-
7/58 sten as High-Temperature Length
Standards. J. L. White.
PB132840, Mi\$2.40, Ph\$3.30.
- 5161 Effect of Neutron Irradiation on the
U Curie Temperature of a Variety of
7/58 Ferrites. E. I. Salkovitz,
G. C. Bailey, A. I. Schindler.
PB131838, Mimeo\$4.50.
- 5163 Nuclear Power Problems Supported
U Jointly by ONR and BuShips Code
1958 1500. Progress Report for the
Period 1 April 1958 to 1 June 1958.
- 5164 A Semimobile, Controlled-Relative-
U Humidity Air Supply.
7/58 K. D. Lawrence, H. F. Bogardus.
- 5165 NRL Participation in the CSAGI
U Rocket and Satellite Conference
1/59 September 30-October 5, 1957.
PB131960, Mimeo\$2.75.
- 5166 An Aerograph for Temperature and
U Humidity Soundings from Aircraft.
8/58 R. E. Ruskin, B. G. Julian,
J. M. Averitt.
PB133125, Mi\$2.70, Ph\$4.80.
- 5167 Silver Oxide-Zinc Alkaline Storage
U Batteries: Effect of Float and
8/58 Normal Charges on Capacity and
Related Characteristics.
C. P. Wales.
PB131925, Mimeo\$1.00.
- 5168 Upper Atmosphere Research
U Report No. XXXIII Aerobee-Hi
8/58 Report Number 6. Single-Line Scan
Television for Spinning Rockets.
F. H. Harris, J. Ainsworth.
PB134203, Mi\$2.40, Ph\$3.30.
- 5169 Correlation of the Thermodynamic
U and Electrical Characteristics of
8/58 Blast-Cooled Aircraft Generators.
Part IV - Procedure for the
Experimental Evaluation of
Constant-Speed Blast-Cooled AC
Generators. D. Friedman.
PB133126, Mi\$2.40, Ph\$3.30.
- 5170 An Automatic Radar Range Moon
U Tracking System. J. E. Abel,
8/58 C. F. White.
PB133235, Mi\$2.70, Ph\$4.80.
- 5171 Electrochemical Mechanisms of
U Noble-Metal/Hydrogen Systems,
7/58 Part III. Electronic Configuration
and Catalytic Activity. S. Schuldiner,
J. P. Hoare.
PB133127, Mi\$2.40, Ph\$3.30.
- 5172 Broadband Ferrite Rotators Using
U Quadruply Ridged Circular Wave-
8/58 guide. H. N. Chait, N. G. Sakotis.
PB133128, Mi\$2.40, Ph\$3.30.
- 5173 The Design of Mirror-Lenses for
U Scanning. A. E. Marston,
8/58 R. M. Brown.
PB133236, Mi\$3.00, Ph\$6.30.

Numerical Index

5174 - 5215

- 5174 Radiant Heating from Rocket
U Exhausts. D. C. Rohlf, W. W. Balwanz.
8/58 PB133234, Mi\$2.70, Ph\$4.80.
- 5176 Creep of a Dispersion-Hardened
U Aluminum Alloy. G. S. Ansell,
8/58 J. Weertman.
PB131887, Mimeo\$50.
- 5179 Upper Atmosphere Research Report
U No. XXXIV. The Aerobee-JR
8/58 NRL-51 (Aerobee-100) Firing
E. C. Pressly.
PB134298, Mi\$2.40, Ph\$3.30.
- 5180 An Airborne Lyman- α Humidiom-
U eter. J. M. Bologna, O. K. Larison,
8/58 D. L. Randall, D. L. Ringwalt.
PB134001, Mi\$2.40, Ph\$3.30.
- 5181 Acidolysis Reactions for the System
U Bis(2-Ethylhexyl)Sebacate, Sebacic
8/58 Acid, and 2-Ethylhexyl Hydrogen
Sebacate. F. L. James,
C. M. Murphy, J. G. O'Rear.
PB134251, Mi\$2.40, Ph\$3.30.
- 5182 Algae and Submarine Habitability -
U An Appraisal. J. M. Leonard.
8/58 PB134259, Mi\$1.80, Ph\$1.80.
- 5183 The Hydrocarbon Flame Extinguish-
U ing Efficiencies of Sodium and
8/58 Potassium Bicarbonate Powders.
R. R. Neill.
PB131857, Mimeo\$75.
- 5184 Naval Research Laboratory
U Research Reactor Part VI -
8/58 A Compilation of Core Loadings.
K. W. Marlow, E. I. Nowstrup,
R. H. Vogt.
PB131959, Mimeo\$1.00.
- 5185 Project Vanguard Report No. 31.
U The Vanguard Sequence Diagram,
8/58 A Graphical Method of Presenting
Complex System Operation.
W. J. D. Escher, R. W. Foster.
PB131922, Mimeo\$75.
- 5186 The Effects of Magnification and
U Average Course Velocity on Com-
8/58 pensatory Tracking. J. H. Bowen,
R. Chernikoff.
- 5187 A Frequency Indicator for the Range
U 10 to 90 CPS. S. R. Curley,
8/58 F. H. Utley, N. W. Guinard.
PB134206, Mi\$2.40, Ph\$3.30.
- 5188 Intensity Discrimination for Narrow
U Band-Widths of Noise at Various
10/58 Pulse Lengths. R. M. Michaels.
PB134206, Mi\$3.00, Ph\$6.30.
- 5189 Naval Research Laboratory
U Research Reactor, Part VII -
9/58 Control and Safety Rod Drives.
J. M. Frame, M. P. Young.
PB131929, Mimeo\$75.
- 5190 Telomerization - A Review of the
U Literature. R. B. Fox, D. E. Field.
11/58 PB131930, Mimeo\$2.00.
- 5195 Volumetric Scanning GCA Antenna
U Prototype. W. F. Gabriel.
10/58 PB134549, Mi\$4.50, Ph\$12.30.
- 5196 Naval Research Laboratory
U Research Reactor. Part VII -
11/58 Neutron Flux Measurements and
Power Determination.
E. H. Bebb, H. C. Price.
PB134548, Mi\$3.30, Ph\$7.80.
- 5198 Project Vanguard Report No. 32,
U Minitrack Report No. 5, Minitrack
9/58 Data for the Artificial Earth
Satellites 1958 Alpha and 1958 Beta
from 7 May 1958 to 20 May 1958.
W. M. Hocking.
PB146092, Mi\$3.30, Ph\$7.80.
- 5200 Strong Shock Waves in Helium-
U Hydrodynamic Calculations.
10/58 C. E. Yaneuff, A. D. Anderson,
A. C. Kolb.
PB135139, Mi\$3.60, Ph\$9.30.
- 5203 IGY Solar Flare Studies. R. Coates,
U S. Edelson, T. McCullough,
9/58 N. Santini.
PB134923, Mi\$1.80, Ph\$1.80.
- 5204 Interactions Between Display Gain
U and Task-Induced Stress in Manual
10/58 Tracking Systems. W. D. Garvey,
J. B. Henson.
PB151046, Mimeo\$50.
- 5205 A Study of the Effects of Filtering on
U the Performance of a Manual Com-
9/58 pensatory Tracking Task.
J. S. Sweeney, H. P. Birmingham,
W. D. Garvey.
PB136149, Mi\$1.80, Ph\$1.80.
- 5206 A Proposed Mechanism for the
U Strengthening of SAP-Type Alloys.
10/58 G. S. Ansell.
PB151047, Mimeo\$50.
- 5207 Relation of Wettability by Aqueous
U Solutions to the Surface Constitution
10/58 of Low-Energy Solids.
M. K. Burnett, W. A. Zisman.
PB151048, Mimeo\$50.
- 5208 Some Measurements of the Radio-
U activity of the Air During 1957.
10/58 L. B. Lockhart, R. A. Baus,
R. L. Patterson, I. H. Blifford.
PB151049, Mimeo\$1.00.
- 5211 Theoretical Design of Primary and
U Secondary Cells. Part I - Effect of
12/58 Polarization and Internal Resistance
on Current Density Distribution.
C. M. Shepherd.
PB151056, Mimeo\$1.50.
- 5212 Theoretical Design of Primary and
U Secondary Cells. Part II - Effect
12/58 of Polarization and Internal
Resistance on Cell Characteristics
and Cell Design. C. M. Shepherd.
PB151067, Mimeo\$75.
- 5213 Naval Research Laboratory
U Research Reactor - Part IX -
11/58 Measurement of Fast-Neutron
Beam Currents. F. E. Jablonaki,
A. F. DiMeglio.
PB151058, Mimeo\$50.
- 5214 An "Instantaneous" Microwave
U Polarimeter Technique. F. J. Allen,
9/58 R. D. Tompkins.
PB151111, Mimeo\$50.
- 5215 Project Vanguard Report No. 33.
U Minitrack Report No. 7, Calibrating
10/58 the Mark II Minitrack System with
Radio Stars as Signal Sources.
V. R. Simas, G. C. Kronmiller.
PB151163, Mimeo\$75.

- 5216 U Project Vanguard Report No. 34. Application of the Simplified Phase Plane to the Analysis and Design of Missile Jet-Relay Control Systems. J. L. Heatt. PB151059, Mimeo\$1.00.
- 5217 U Project Vanguard Report No. 35. Minitrack Report No. 6, The Vanguard Satellite Command Receiver. D. S. Hepler. PB151112, Mimeo\$.50.
- 5218 U Characteristics of Radar Sea Clutter: Observations at 220MC. W. S. Ament, J. A. Burkett, F. C. MacDonald, D. L. Ringwalt. PB151132, Mimeo\$.50.
- 5219 U Some Problems in the Design of Human-Operated Target Data Processing Systems. T. J. Coonan. PB151113, Mimeo\$.50.
- 5220 U Normalization Procedures for NRL Drop-Weight Test. P. P. Puzak, A. J. Babecki. PB151114, Mimeo\$.75.
- 5222 U Fracture Strengths Relative to Onset and Arrest of Crack Propagation. G. R. Irwin, J. A. Kies, H. L. Smith. PB151131, Mimeo\$.75.
- 5223 U High-Temperature Lubricants from Aromatic Acids and Fluoroalcohols. C. M. Murphy, J. G. O'Rear, H. Ravner, P. J. Sniegoski, C. O. Timmons. PB151157, Mimeo\$.50.
- 5224 U A Direct-Reading Six-Decade Precision Frequency Generator. J. E. McGeogh, G. K. Jensen. PB151158, Mimeo\$.50.
- 5225 U Heat Transfer Studies on a Forced Convection Loop with Monoisopropylbiphenyl. J. P. Stone, C. T. Ewing, C. H. Blanchly, E. W. Steinkuller, R. R. Miller. PB151159, Mimeo\$.50.
- 5226 U The Distribution of Acetic Acid Between Solvent and Soap Micelles in Benzene Solutions. W. D. Bascom, C. R. Singletary. PB135642, M\$1.80, Ph\$1.80.
- 5227 U Project Vanguard Report No. 36. Minitrack Report No. 8. C. A. Schroeder, E. J. Habib, W. R. Silvester. PB151169, Mimeo\$1.25.
- 5231 U Multiple-Channel Elapsed-Time Recorders of Voltage Amplitudes. R. K. Royce. PB135644, M\$3.00, Ph\$6.30.
- 5234 U The CIC Facility of the U. S. Naval Research Laboratory. W. H. Wiederspahn, J. R. Webster, G. H. Fowler.
- 5235 U Preliminary Experiments Using Carbon Black for Cloud Modification and Formation. F. W. van Straten, R. E. Ruskin, J. E. Dinger, H. J. Mastenbrook. PB151183, Mimeo\$.75.
- 5236 U Effect Upon Shock Spectra of the Dynamic Reaction of Structures. G. J. O'Hara. PB135645, M\$2.70, Ph\$4.80.
- 5237 U Evidence for Correlations Between Microseisms and Earthquakes. C. A. Nanney. PB151170, Mimeo\$.75.
- 5238 U Radiochemical Analyses of Air-Filter Samples Collected During 1957. R. A. Baus, R. L. Patterson, A. W. Saunders, L. B. Lockhart. PB136286, M\$2.40, Ph\$3.30.
- 5240 U Some Design Considerations Concerning Linear Arrays Having Dolph-Tchebycheff Amplitude Distributions. M. L. Reuss. PB151231, Mimeo\$.75.
- 5241 U Some Recent Advances in Radioactive Self-Luminous Aids to Night Military Activity. L. J. Boardman. PB151226, Mimeo\$.50.
- 5242 U Tautomerism in Phosphorus Chemistry. Part I - Deuterium Exchange Studies with Dibutyl Phosphonate. R. B. Fox. PB151227, Mimeo\$.50.
- 5244 U Surface Activity of Fluorinated Organic Compounds at Organic-Liquid/Air Interfaces. Part I - Surface Tension, Parachor, and Spreadability. N. L. Jarvis, W. A. Zisman. PB136332, M\$2.40, Ph\$3.30.
- 5245 U Chemical-Resistant Silk Screen Inks for the Manufacture of Printed Circuits. G. E. Rohl, W. H. Stewart, J. E. Cowling, D. J. Berryhill. PB151248, Mimeo\$1.25.
- 5246 U A System for the Detection of Nuclear Explosions at Long Range by Measurement of Radioactive Debris at Ground Level. (O.U.O.). (U). L. B. Lockhart.
- 5248 U The Naval Data Handling System Pickoff Display Converter. F. R. Fluhr, D. J. McLaughlin. PB136357, M\$3.30, Ph\$7.80.
- 5249 U Atmospheric Radioactivity Studies at the U.S. Naval Research Laboratory. L. B. Lockhart, R. A. Baus, P. King, I. H. Blifford. PB151271, Mimeo\$.50.
- 5252 U Thermodynamic Properties of Face-Centered Cubic Lattices. Part I - A NAREC Calculation of the Vibration Spectra and Dispersion Relations. W. C. Overton, E. Dent. PB136511, M\$4.80, Ph\$13.80.
- 5253 U The Classification and Counting of Dropouts from Magnetic Tape Recording Systems. R. H. Carson. PB151286, Mimeo\$1.00.
- 5254 U Fast Scan: A 36-Position Multiple-Channel Electronic Switch. F. R. Fluhr. PB136512, M\$3.00, Ph\$6.30.
- 5255 U Nuclear Power Problems Supported Jointly by ONR and BuShips Code 1500. Progress Report for the Period 1 October 1958 to 1 December 1958.
- 5256 U Adsorption of Soluble Fluorocarbon Derivatives at the Organic-Liquid/Air Interface. A. H. Ellison, W. A. Zisman. PB136844, M\$2.40, Ph\$3.30.

- 5257 The Degradation of Polymers by
U Ultraviolet Irradiation. Part I -
2/59 When Subjected to Radiation of the
"Near" Ultraviolet Region in Air.
A. L. Alexander, F. M. Noonan,
J. E. Cowling, R. E. Kagarise.
PB151411, Mimeo\$.50.
- 5258 Solar Spectra Intensity Measure-
U ments (3600A to 6400A) at
12/58 Oskarshamn, Sweden, During the
Eclipse of June 30, 1954.
L. Dunkelmann, J. D. Purcell,
E. O. Hulburt.
PB137017, Mi\$2.40, Ph\$3.30.
- 5259 On the Theory of Flexural
U Piezoceramic Circular Plate Sound
2/59 Radiators. S. Hanish.
PB137631, Mi\$2.70, Ph\$4.80.
- 5260 Computation of Singly Scattered
U Radiation from a Distant Source
4/59 when the Angular Scattering Func-
tion is Known. J. W. Tucker.
PB151350, Mimeo\$1.75.
- 5262 A Comparison of Zero-Order and
U Fourth-Order Aided Compensatory
1 59 Systems as a Function of Course
Frequency. R. Chernukoff,
J. H. Bowen, H. P. Birmingham.
PB136788, Mi\$1.80, Ph\$1.80.
- 5263 Crack Propagation Tests of Some
U High-Strength Sheet Steels.
1/59 J. E. Srawley, C. D. Beachem.
PB151352, Mimeo\$.75.
- 5264 The Effects of Ambient Illumination,
U CRT Bias, and Noise Upon Target
1/59 Detectability with a B-Display.
R. E. Gardner, J. M. Carl.
PB136813, Mi\$1.80, Ph\$1.80.
- 5265 An Improved Device for the Forma-
U tion of Superfine, Thermoplastic
2/59 Fibers. K. D. Lawrence,
R. T. Lucas, J. A. Young.
PB151412, Mimeo\$.50.
- 5267 Theory of a Very Thin Piezoceramic
U Hollow Sphere Underwater Sound
3/59 Radiator. S. Hanish.
PB136814, Mi\$3.00, Ph\$6.30.
- 5268 The Partitioning of Alloying
U Elements in Malleable Irons.
2/59 G. Sandoz.
PB151413, Mimeo\$.75.
- 5269 The Use of "Artificial Signals" to
U Enhance Monitoring Performance.
2/59 W. D. Garvey, F. V. Taylor,
E. P. Newlin.
PB137018, Mi\$1.80, Ph\$1.80.
- 5270 Man-Machine Factors in the NRL
U Nuclear Reactor Control System.
3/59 H. J. Berliner, M. P. Young,
G. F. Wall.
PB151732, Mimeo\$.75
- 5271 Facilities and Instrumentation of
U the NRL Hypervelocity Laboratory.
2/59 S. O. Bailey, A. B. J. Clark,
D. A. Hall, H. F. Swift.
PB137207, Mi\$2.40, Ph\$3.30.
- 5272 The Parachute-Deliverable Buoy-
U Type Automatic Weather Station.
5/59 W. A. VonWald, R. B. Bridge.
PB151427, Mimeo\$1.00.
- 5273 Rocket Research Report No. XXI.
U Photography from the Viking 12
4/59 Rocket at Altitudes Ranging up to
143.5 Miles. R. C. Baumann,
L. Winkler.
PB138244, Mi\$3.00, Ph\$6.30.
- 5275 Preconversion of Oxide Cathodes.
U
3 59 G. A. Haas, J. T. Jensen.
PB151442, Mimeo\$.50.
- 5277 Infrared Dispersion and the Deter-
U mination of Absorption Coefficients.
3/59 R. E. Kagarise.
PB151443, Mimeo\$.75.
- 5278 A Remotely Controlled Drop-Weight
U Test Machine for Brittle-Fracture
2/59 Studies. I. E. Steele,
J. R. Hawthorne.
PB151500, Mimeo\$.50.
- 5280 Attenuation of Electromagnetic
U Radiation by Sea Water.
1/59 E. Ornstein.
PB138310, Mi\$1.80, Ph\$1.80.
- 5281 Digitalized Pickoff Display
U Converter. F. R. Fluhr.
3/59 PB138311, Mi\$1.80, Ph\$1.80.
- 5282 Table of (p, γ) Resonances.
U
4/59 J. W. Butler.
PB138027, Mi\$2.70, Ph\$4.80.
- 5283 An Eight Spiral Doublet Electro-
U mechanical Scanning Array.
4/59 J. R. Donnellan.
PB138312, Mi\$2.40, Ph\$3.30.
- 5284 Examination of the Discharge Path
U in a Flash Tube Containing a Beta-
4/59 Ray-Gun Electrode.
J. W. Tucker.
PB138313, Mi\$2.40, Ph\$3.30.
- 5285 Foundry Characteristics of Mn-V-Mo
U Age-Hardening Austenitic Steel.
3/59 N. C. Howells, E. A. Lange.
PB151539, Mimeo\$.50.
- 5286 The Chesapeake Bay Annex of
U the U.S. Naval Research Laboratory.
8/59
- 5287 Nuclear Power Problems Supported
U Jointly by ONR and BuShips Code
1959 1500. Progress Report for the
Period 1 December 1958 to
1 February 1959.
- 5289 Some Probability Aspects of the
U Aircraft Collision Problem.
4/59 P. J. LaRochelle, R. E. Breacia.
PB151556, Mimeo\$1.25.
- 5290 Charpy-V Transition Temperatures
U of Ferritic Iron Alloys. Part I -
4/59 Iron-Oxygen and Iron-Aluminum.
J. E. Srawley.
PB151555, Mimeo\$.50.
- 5291 Effect of Hydrogen Pressure on the
U Hydrogen Overvoltage on Bright
4/59 Platinum. S. Schuldiner.
- 5292 A Wide-Range Multiple-Pulse
U Amplifier. R. E. Kocen.
6/59 PB138044, Mi\$2.70, Ph\$4.80.
- 5293 Factors Affecting the Performance
U of Mold and Core Sand Bonded with
3/59 Sodium Silicates. R. E. Morey,
E. A. Lange.
PB138474, Mi\$2.40, Ph\$3.30.
- 5295 Prototype Model of an Automatic
U X-Band Microwave Impedance
5/59 Recorder. W. F. Gabriel.
PB151557, Mimeo\$1.00.
- 5296 Some Characteristics of the Eye
U Affecting Photometric Measure-
5/59 ments. L. J. Boardman.
PB138796, Mi\$2.70, Ph\$4.80.
- 5297 The Y- or Junction-Type Circulator.
U
5/59 H. N. Chait, T. R. Curry.
PB151633, Mimeo\$.50.
- 5298 Oxides on the Silver Electrode.
U
5/59 C. P. Wales, J. Burbank.
- 5299 Signal Summing with Electrolytic
U Capacitors. C. C. Minter.
4/59 PB138795, Mi\$1.80, Ph\$1.80.

- 5301 Atmospheric Radioactivity Levels at Yokosuka, Japan, 1954-1958. U
4/59 L. B. Lockhart. PB138794, Mi\$1.80, Ph\$1.80.
- 5304 Waveguide Dummy Loads and Attenuators Utilizing High-Loss Ferromagnetic Materials. U
6/59 W. H. Emerson, R. W. Wright, A. G. Sands, M. V. McDowell. PB151637, Mimeo\$.75.
- 5305 A Remotely Operated Charpy Test Machine for Radioactive Specimens. U
7/59 J. R. Hawthorne, L. E. Steele. PB151636, Mimeo\$.50.
- 5306 The Stability and Surface Tension of Teflon Dispersions in Water. U
5/59 N. L. Jarvis, W. A. Zisman. PB151635, Mimeo\$.75.
- 5307 Wave Propagation in Suspensions. U
4/59 W. S. Ament. PB138844, Mi\$.630, Ph\$19.80.
- 5308 Steady-State Response of a Synchronized LC Oscillator to Incremental Reactance Changes. U
6/59 G. Robinson. PB139580, Mi\$2.70, Ph\$4.80.
- 5310 Utilization of Transoosonde Data. U
5/59 H. J. Mastenbrook. PB138797, Mi\$2.40, Ph\$3.30.
- 5313 Nuclear Power Problems Supported Jointly by ONR and BuShips Code 1500. Progress Report for the Period 1 February 1959 to 1 April 1959. U
1959
- 5314 Marine Borer Control. Part VIII - Distillation Residue Studies. U
4/59 T. R. Sweeney, T. R. Price. PB139730, Mi\$2.40, Ph\$3.30.
- 5315 Damping Theory. U
5/59 R. C. O'Rourke. PB139726, Mi\$2.40, Ph\$3.30.
- 5316 Salvage of Flooded Electrical Equipment. H. R. Baker, U
6/59 P. B. Leach. PB151670, Mimeo\$.75.
- 5317 High-Current Grid-Controlled Electron Multiplier Tube. U
6/59 G. L. Stambach, W. J. Graham, T. E. Hanley. PB151669, Mimeo\$.50.
- 5318 A Reactor Code for the NAREC. U
5/59 S. Podgor, L. A. Beach. PB139727, Mi\$2.40, Ph\$3.30.
- 5321 The Effects of Nuclear Irradiation Upon the Microwave Properties of Certain Ferrites. N. G. Sakiotis, U
6/59 E. I. Salkovitz, A. I. Schindler. PB151691, Ph\$.50.
- 5322 Environmental Factors Affecting Altitude Performance and Control of Constant-Volume Balloons. U
6/59 H. J. Mastenbrook. PB139793, Mi\$3.00, Ph\$6.30.
- 5323 Studies of the Effect of Dynamic Preloads on the Mechanical Properties of Steel. R. C. Smith. U
5/59 PB151685, Mimeo\$.50.
- 5325 Wetting of Low-Energy Solids by Aqueous Solutions of Highly Fluorinated Acids and Salts. U
6/59 M. K. Bennett, W. A. Zisman. PB151696, Mimeo\$.50.
- 5326 Thermoluminescent Dosimeter. U
6/59 J. H. Schulman, R. J. Ginter, R. D. Kirk, H. S. Goulart. PB151725, Mimeo\$.50.
- 5328 The Efficiency of a Thermomagnetic Generator. H. E. Stauss. U
6/59 PB151736, Mimeo\$.50.
- 5329 A New Method for Determining the Degree of Compatibility of Dry Chemical Powders with Mechanical Foams. E. J. Jablonski, R. L. Gipe. U
6/59 PB151734, Mimeo\$.75.
- 5330 Great Circle Calculations by Digital Computer. B. E. Trotter. U
7/59 PB140185, Mi\$2.40, Ph\$3.30.
- 5331 The Aluminum-Silicon Eutectic. R. A. Meussner. U
6/59 PB151735, Mimeo\$.50.
- 5332 A Solid-Propellant Pressurizer for Fire-Extinguishing Systems in Polar Regions. U
8/59 J. K. Musick, J. A. Grand. PB151737, Mimeo\$.75.
- 5333 Electrochemical Mechanisms of Noble-Metal/Hydrogen Systems - Part IV. Transport of Hydrogen and Deuterium through Metals. S. Schuldiner, J. P. Hoare. U
7/59 PB140353, Mi\$3.00, Ph\$6.30.
- 5335 Tautomerism in Phosphorus Chemistry Part II - Iodination of Di-n-Butyl Phosphonate in n-Butyl Alcohol. R. B. Fox. U
7/59 PB140391, Mi\$2.70, Ph\$4.80.
- 5336 Proposed Extension of the Naval Research Laboratory Research Reactor Operating Schedule to More Than 40 Hours per Week. A. F. DiMeglio, J. O. Elliot, J. M. Frame, L. F. Garcia, S. E. Gollan, K. W. Marlow, E. I. Nowstrop, S. Podgor. U
8/59
- 5341 The Structure of Aluminum-Silicon Alloys. R. A. Meussner. U
7/59 PB151760, Mimeo\$.75.
- 5342 Upper Atmosphere Research Report No. XXXV. Ground Stations for NRL Rocket Studies of the Ionosphere. J. E. Jackson, G. H. Spaid. U
8/59 PB151763, Mimeo\$1.00.
- 5343 Planning Philosophy for Complex Systems. P. Waterman, W. Hodgson, C. Francis. U
8/59 PB151764, Mimeo\$.50.
- 5344 An Analysis of the Avoidance of Collision Between Aircraft on Curvilinear Flight Trajectories. P. A. Crafton. U
8/59 PB151769, Mimeo\$.50.

Numerical Index

5345 - 5386

- | | | | | | |
|-------------------|---|--------------------|---|--------------------|--|
| 5345
U
8/59 | Upper Atmosphere Research Report No. XXXVI - Breakdown and Detuning of Transmitting Antennas in the Ionosphere. J. E. Jackson, J. A. Kane. PB140726, Mi\$2.70, Ph\$4.80. | 5360
U
7/59 | Reactions of Organophosphorus Acids with Isocyanates. Part I - The Base-Catalyzed Condensation. R. B. Fox. PB151806, Mimeo\$50. | 5372
U
10/59 | Solution of Systems of Simultaneous Linear Equations on the NAREC. B. Lepson, J. P. Mason. PB140974, Mi\$2.40, Ph\$3.30. |
| 5346
U
7/59 | Solidification of the Aluminum-Silicon Eutectic. R. A. Meussner. PB151768, Mimeo\$50. | 5361
U
8/59 | The Vaporator, A Device for Measuring the Vapor Source Strength of CW-Contaminated Surfaces. Part I - Background and Prototype. G. H. Fielding. PB151935, Mimeo\$50. | 5373
U
12/59 | Cancelled. |
| 5347
U
8/59 | Simple Laboratory Bulge Tests for Sheet-Metal Fracture-Transition Studies and for Weldment-Performance Evaluation. P. P. Puzak, J. Stoop. PB151771, Mimeo\$50. | 5363
U
8/59 | Marine Borer Control. Part IX - A Toxicity Screening Test for Candidate Marine Wood Preservatives. T. R. Sweeney, C. E. Patouillet. PB151807, Mimeo\$50. | 5374
U
12/59 | An Investigation of Impulse-Voltage Breakdown in Polyethylene. C. R. Vail. PB151955, Mimeo\$1.50. |
| 5348
U
7/59 | Crack Propagation Tests of High-Strength Sheet Materials. Part III - Low-Alloy Air-Hardening Steel. J. E. Srawley, C. D. Beachem. PB151770, Mimeo\$50. | 5364
U
10/59 | Surface Activity of Fluorinated Organic Compounds at Organic-Liquid/Air Interfaces. Part II - Surface Tension VS Concentration Curves, Adsorption Isotherms, and Force-Area Isotherms for Partially Fluorinated Carboxylic Esters. N. L. Jarvis, W. A. Zisman. PB151808, Mimeo\$50. | 5377
U
10/59 | Symbolic Address-Symbolic Optimum Programs for a Drum-Memory Computer. J. K. Russell. PB151999, Mimeo\$1.25. |
| 5350
U
9/59 | Some Structural Guides to the Development of High Dielectric Constant Esters for Capacitors. J. B. Romans, C. R. Singleterry. PB151797, Mimeo\$1.00. | 5365
U
8/59 | Reactions of Organophosphorus Acids with Isocyanates. Part II - Condensations in the Absence of Bases. R. B. Fox. PB151809, Mimeo\$50. | 5378
U
10/59 | Electromagnetic Probes for Near-Zone Measurements. D. C. Rohlfis, W. W. Balwanz, F. E. Boyd. PB142451, Mi\$3.30, Ph\$7.80. |
| 5351
U
1959 | Nuclear Power Problems Supported Jointly by ONR and BuShips Code 1500. Progress Report for the Period 1 April 1959 to 1 June 1959. | 5367
U
8/59 | Charpy-V Transition Temperatures of Ferritic Iron Alloys. Part II - Iron-Chromium and Iron-Chromium-Aluminum. J. E. Srawley. PB151811, Mimeo\$50. | 5380
U
10/59 | Effect of Temperature on the Luminescence of Phosphorescent and Fluorescent Material Used for Aids to Military Activity in the Dark. L. J. Boardman. PB161005, Mimeo\$50. |
| 5354
U
8/59 | Electrophoretic Properties of Spores of Aspergillus Niger. P. J. Hannan. | 5368
U
10/59 | Atmospheric Transmission in the Visible Region. J. A. Curcio, K. A. Durbin. PB140932, Mi\$2.70, Ph\$4.80. | 5381
U
10/59 | Effect of Dielectric Constant on Certain Characteristics of Plane Electromagnetic Waves in Nonmagnetic Conductive Media. L. S. Bearce, R. W. Zeek. PB142452, Mi\$1.80, Ph\$1.80. |
| 5356
U
7/59 | Dipole Fields and Normal Modes in Magnetic Garnet. J. I. Kaplan. PB140820, Mi\$1.80, Ph\$1.80. | 5370
U
10/59 | Corrosion of Metals in Tropical Environments. Part 4 - Wrought Iron. C. R. Southwell, B. W. Forgeson, A. L. Alexander. PB151852, Mimeo\$50. | 5383
U
10/59 | Metals Coated with Films of Low Surface Energy as Reference Electrodes for the Measurements of Contact Potential Differences. K. Bewig, W. A. Zisman. PB151994, Mimeo\$50. |
| 5358
U
6/59 | Proposal for 1000-KW Operation of the NRL Research Reactor. A. F. DiMeglio, J. O. Elliot. | 5371
U
9/59 | Energy Production and Fusion Products from a Thermonuclear Plasma. W. R. Faust, A. D. Anderson. PB151851, Mimeo\$1.00. | 5384
U
11/59 | Low-Hazard Linings for Steel Fuel Storage Tanks. J. R. Griffith, J. E. Cowling, A. L. Alexander. |
| 5359
U
9/59 | Measurements of the Air Concentration of Gross Fission Product Radioactivity During the IGY - July 1957 - December 1958. L. B. Lockhart, R. L. Patterson, W. L. Anderson. PB140821, Mi\$2.40, Ph\$3.30. | | | 5385
U
10/59 | Propagation Measurements in the 5-Millimeter Region. K. M. Decker, R. C. Dodson. PB142453, Mi\$2.40, Ph\$3.30. |
| | | | | 5386
U
11/59 | Shock Spectra and Design Shock Spectra. G. J. O'Hara. |

- 5387 Notes on Dynamics of Linear
U
10/59 Elastic Structures. G. J. O'Hara.
PB151933, Mimeo\$.50.
- 5388 Interactions Between Electromag-
U
9/59 netic Waves and Flames. Part 6 -
Theoretical Plots of Absorption,
Phase Shift, and Reflection.
W. W. Balwanz.
PB142454, Mi\$3.00, Ph\$6.30.
- 5389 Naval Research Laboratory
U
10/59 Research Reactor, Part X -
Some Reactivity Measurements.
K. W. Marlow, E. I. Nowstrup,
R. H. Vogt.
PB151956, Mimeo\$.50.
- 5390 Radiochemical Analyses of Air-
U
10/59 Filter Samples Collected During
1958. L. B. Lockhart, R. A. Baus,
R. L. Patterson, A. W. Saunders.
PB142469, Mi\$2.70, Ph\$4.80.
- 5391 Recent Results in Plasma Physics
U
8/59 Research. A. C. Kolb, W. R. Faust.
PB151934, Mimeo\$.75.
- 5392 Hydrogen-Embrittlement Suscepti-
U
10/59 bility of Some Steels and Nonferrous
Alloys. J. E. Srawley.
PB151937, Mimeo\$.75.
- 5393 Tautomerism in Phosphorus
U
10/59 Chemistry. Part III - Hydrogen
Isotope Exchange in Phenyl-
phosphonic Acid and Its Anion.
R. B. Fox.
PB142450, Mi\$2.40, Ph\$3.30.
- 5394 Constitutive Relations in the Wetting
U
10/59 of Low-Energy Surfaces and the
Theory of the Retraction Method of
Preparing Monolayers.
E. G. Shafrin, W. A. Zisman.
PB151936, Mimeo\$.50.
- 5396 Optimum f Number for Parabolic
U
9/59 Mirrors Used in Non-Image-
Forming Optical Systems.
C. T. McComb.
PB142490, Mi\$1.80, Ph\$1.80.
- 5397 The Zero Crossing Problem.
U
11/59 D. F. Grady.
PB142595, Mi\$2.70, Ph\$4.80.
- 5398 Effect of Hydrogen Pressure on the
U
11/59 Hydrogen Overvoltage on Bright
Rhodium. S. Schuldiner.
- 6400 A Three-Level Chromium Ion
U
11/59 Maser. M. A. Garstens,
W. W. McAllister.
PB151996, Mimeo\$.50.
- 5401 Surface Activity of Fluorinated
U
11/59 Organic Compounds at Organic-
Liquid/Air Interfaces. Part III -
Equation of State of Adsorbed
Monolayers and Work of Adsorption
of a Fluorocarbon Group.
N. L. Jarvis, W. A. Zisman.
PB151997, Mimeo\$.50.
- 5405 The Theory of the Thick-Shell
U
12/59 Hollow-Piezoceramic-Sphere
Underwater Sound Transducer.
S. Hanish.
PB142854, Mi\$3.00, Ph\$6.30.
- 5407 The Influence of Temperature
U
11/59 Elevation on the Penetration of
Missiles into Copper Targets.
W. J. Ferguson, K. R. McKinney.
PB143406, Mi\$2.40, Ph\$3.30.
- 5408 A Study of Photons in Sodium
U
12/59 Iodine Scintillation Crystals.
C. M. Davison, L. A. Beach.
PB146030, Mi\$4.50, Ph\$12.30.
- 5409 Mechanical Impedance as a Tool
U
2/60 for Shock or Vibration Analysis.
R. O. Belsheim, J. W. Young.
PB161022, Mimeo\$1.00.
- 5411 Fluoroalkoxysilanes. C. M. Murphy,
U
12/59 J. G. O'Rear, H. Ravner,
P. Sniegoski.
PB161026, Mimeo\$.50.
- 5412 Some Observations as Localized
U
12/59 Buckling of Centrally Notched
Sheet-Steel Specimens.
W. L. Bingham.
PB143015, Mi\$1.80, Ph\$1.80.
- 5413 CRT Target Detectability with
U
10/59 Transparent and Opaque Phosphors.
C. W. Iseley, J. M. Carl.
PB143302, Mi\$1.80, Ph\$1.80.
- 5414 Experimental Valveless Pulsejet
U
12/59 Diesel-Fueled Fog Generator.
M. A. Persechino.
PB143016, Mi\$2.40, Ph\$3.30.
- 5416 Calculation of Transient Discharges
U
1/60 Between Separating Contacts.
H. E. Stauss, C. W. Klee.
PB161024, Mimeo\$.50.
- 5417 Frequency Detector.
U
12/59 F. R. Fluhr.
- 5418 Decision-Making Studies. Part I -
U
1/60 The Trade-Off of Variables in
Decision Making. J. R. Hayes,
E. C. Smith.
PB161052, Mimeo\$.50.
- 5420 Inverse Networks. C. F. White.
U
11/59 PB143407, Mi\$2.40, Ph\$3.30.
- 5422 Micellar Properties of Oil-Soluble
U
1/60 Soaps and Their Significance
in Detergency. W. D. Bascom,
S. Kaufman, C. R. Singleterry.
PB161067, Mimeo\$.50.
- 5423 Ignition of Hydrocarbon Vapors by
U
12/59 Continuous DC Arcs. F. J. Woods,
K. G. Williams, H. W. Carhart.
PB161068, Mimeo\$.50.
- 5424 Two-Dimensional Tracking with
U
11/59 Identical and Different Control
Dynamics in Each Coordinate.
R. Chernikoff, J. W. Ducey,
F. V. Taylor.
PB143803, Mi\$1.80, Ph\$1.80.
- 5426 Modifications in the NRL Colorimetric
U
5/60 Method for the Determination of
Bis(2-Chloroethyl) Sulfide with
DB-3. A. Stamulis.
PB161066, Mimeo\$.50.
- 5427 Steel Corrosion Mechanisms Under
U
12/59 Conditions Pertinent to Steam
Power Generation. M. C. Bloom,
M. B. Strauss.
- 5428 The Use of Quickening in One
U
11/59 Coordinate of a Two-Dimensional
Tracking System. J. W. Ducey,
R. Chernikoff.
PB143801, Mi\$1.80, Ph\$1.80.
- 5429 The Adhesion of Ice to Lubricated
U
2/60 Surfaces. H. R. Baker,
W. D. Bascom, C. R. Singleterry.
PB143939, Mi\$2.40, Ph\$3.30.

- 5430 Radar Target Angular Scintillation in Tracking and Guidance Systems Based on Echo Signal Phase Front Distortion. D. D. Howard. PB143942, Mi\$2.40, Ph\$3.30.
- 5431 Stellar Magnitude of Low-Reflectance Spherical Satellites. S. Neuder. PB143940, Mi\$1.80, Ph\$1.80.
- 5432 Radiometric Behavior of High Explosives at Reduced Pressure. M. Cavanagh, A. Rockman. PB143941, Mi\$1.80, Ph\$1.80.
- 5437 Ignition Studies. Part V - Study of the Processes Occurring During the Spontaneous Ignition of the Hexane Isomers. W. A. Affens, J. E. Johnson, H. W. Carhart. PB161105, Mimeo\$.50.
- 5439 Effectiveness of Water Mists for Protection from Radiant Heat Ignition. H. E. Moran. PB161106, Mimeo\$.50.
- 5440 Critical Analysis of Measurements of the Gross Fission Product Activity in the Air at Ground Level. L. B. Lockhart, R. L. Patterson. PB144112, Mi\$2.40, Ph\$3.30.
- 5442 The Naval Data Handling System Communications System. D. J. McLaughlin. PB143950, Mi\$2.40, Ph\$3.30.
- 5443 Shipboard Studies of Fuel-Vapor Ignition by Radio-Frequency Arcs. F. J. Woods, K. G. Williams, H. W. Carhart. PB143950, Mi\$2.40, Ph\$3.30.
- 5446 An $f/3.5$ Medium-Dispersion Grating Spectrograph. F. D. Harrington. PB161420, Mimeo\$.50.
- 5448 Calculation of Absorbed Dose. C. H. Cheek, V. J. Linnenbom. PB161259, Mimeo\$1.00.
- 5449 Theoretical Analysis of Echo Formation in the Fluctuation Environment of the Sea. R. L. Steinberger. PB144476, Mi\$2.40, Ph\$3.30.
- 5450 Effect of Radiation Upon Ceramic-Bonded Strain Gages. N. J. Rendler, R. C. Smith. PB161307, Mimeo\$.50.
- 5451 Factors Influencing the Lead Corrosivity of Diester-Base Oils. C. M. Murphy, H. Ravner, C. O. Timmons. PB144526, Mi\$2.70, Ph\$4.80.
- 5453 Infrared Transmission of the Atmosphere. H. W. Yates, J. H. Taylor. PB144636, Mi\$3.30, Ph\$7.80.
- 5454 Reduction of the Hydrogen Over-voltage of Nickel Electrodes with Palladium. J. C. White, S. Schuldiner. PB144637, Mi\$1.80, Ph\$1.80.
- 5455 Stark Broadening of Hydrogen Lines in a Plasma. H. R. Griem, A. C. Kolb, K. Y. Shen. PB144638, Mi\$2.70, Ph\$4.80.
- 5456 Chemical Constituents of Submarine Atmospheres. V. R. Piatt, E. A. Ramakill, J. C. White.
- 5457 The Stabilization of Silicone Lubricating Liquids above 200 C. Part I - Conventional Oxidation Inhibitors and Some High-Surface Solids. H. R. Baker, F. F. Sullivan, C. R. Singleterry. PB161314, Mimeo\$1.00.
- 5458 Experimental Measurement of Mechanical Impedance. J. W. Young, R. O. Beisheim. PB144639, Mi\$2.70, Ph\$4.80.
- 5459 Influence of Atmosphere on Optical Resolution in a Typical Nevada Tunnel. A. G. Rockman. PB145519, Mi\$1.80, Ph\$1.80.
- 5460 Crack Propagation Tests of High-Strength Sheet Materials. Part IV - The Effect of Warm Pre-Straining. J. E. Srawley, C. D. Beachem. PB161355, Mimeo\$.50.
- 5461 Diffusion of Nb with Cr, Fe, Ni, Mo, and Stainless Steel. L. S. Birks, R. E. Seebold.
- 5462 A Standard Source of Radiation for Radiac Detectors. Part II - Extension of the Range of Exposure-Dose and the New Cs-137 Source. A. E. Nash, W. E. Kunz. PB145058, Mi\$2.40, Ph\$3.30.
- 5464 Heat Treatment of Mn-V-Mo Age-Hardening Austenitic Steel. N. C. Howells, E. A. Lange. PB161370, Mimeo\$.50.
- 5465 The Present Status of Chemical Research in Atmosphere Purification and Control on Nuclear-Powered Submarines. R. R. Miller, V. R. Piatt. PB161518, Mimeo\$3.00.
- 5466 The Acoustical Spectrum as a Tool for Investigating the Impact Sensitivity of Explosives. R. C. Bowers, J. B. Romans. PB145242, Mi\$1.80, Ph\$1.80.
- 5467 Theoretical Analysis of Monostatic Reflection in the Far Field of Rigid, Finite Objects. W. G. Neubauer. PB145244, Mi\$2.70, Ph\$4.80.
- 5468 Comparison of Microwave and Langmuir Probe Techniques for the Investigation of Electrical Discharges. R. C. Jones, C. M. Howe, J. L. Ahearn. PB145350, Mi\$2.40, Ph\$3.30.
- 5471 Wetting Properties of Tetrafluoroethylene and Hexafluoropropylene Copolymers. M. K. Bernett, W. A. Zisman. PB145397, Mi\$1.80, Ph\$1.80.
- 5472 An Improved DC Current-Interrupter Unit. C. H. Presbrey, S. Schuldiner. PB161437, Mimeo\$.75.

- 5473 Study of Coke-Aggregate Concrete as a Shield to Electromagnetic Radiation. P. F. Nicholson. PB145522, Mi\$2.40, Ph\$3.30.
U
5/60
- 5474 The Stabilization of Silicone Lubricating Liquids above 200°C. Part 2 - Iron, Copper, Cerium, and Other Metal Compounds. H. R. Baker, C. R. Singleterry. PB161449, Mimeo\$75.
U
8/60
- 5475 Source and Detector Corrections for Angular Correlation Measurements. F. C. Young. PB145718, Mi\$1.80, Ph\$1.80.
U
6/60
- 5476 A Mathematical Model for Evaluating Tactical Decisions in Fleet Air Defense Games - Part I. D. F. Wilson, H. Glaser, H. L. Toothman, M. A. Sass, R. H. Wilcox.
U
7/60
- 5477 Some Methodological Considerations in Measuring Visual Thresholds for Velocity. R. H. Brown. PB145719, Mi\$2.40, Ph\$3.30.
U
4/60
- 5478 Analysis of Visual Sensitivity to Differences in Velocity. R. H. Brown. PB145720, Mi\$2.40, Ph\$3.30.
U
5/60
- 5479 The Effect of Neutron Irradiation on the Charpy V and Drop-Weight Test Transition Temperatures of Various Steels and Weld Metals. J. R. Hawthorne, L. E. Steele. PB161448, Mimeo\$75.
U
5/60
- 5480 A Table of Probability Distributions Useful in War Games and Other Competitive Situations. H. L. Toothman. PB145721, Mi\$5.40, Ph\$15.30.
U
5/60
- 5481 Low Temperature Dependence of the Electrical Resistivity and Thermoelectric Power of Palladium and Palladium Nickel Alloys Containing Absorbed Hydrogen. A. I. Schindler, R. J. Smith, E. W. Kammer. PB146217, Mi\$1.80, Ph\$1.80.
U
6/60
- 5482 Cancelled.
- 5483 Neutron Flux Measurements for Materials Irradiation Experiments at Argonne National Laboratory, Brookhaven National Laboratory, Oak Ridge National Laboratory, and National Reactor Test Station. L. E. Steele, J. R. Hawthorne. PB161456, Mimeo\$50.
U
5/60
- 5484 High-Power Transistorized Amplifiers for Sonar Application. W. M. Lawson.
U
8/60
- 5485 Measurements of the Positions, Fluxes, and Sizes of Celestial Radio Sources at 10.2 CM. R. M. Sloanaker, J. H. Nichols. PB146037, Mi\$2.70, Ph\$4.80.
U
7/60
- 5486 Fracture Testing of High-Strength Sheet Materials Under Conditions Appropriate for Stress Analysis. G. R. Irwin. PB161474, Mimeo\$1.25.
U
7/60
- 5488 Instrumentation for the Classification of Space Signals. F. T. Powles. PB161515, Mimeo\$50.
U
7/60
- 5489 Electrically Exploded Wires - Experiments and Theory - Progress Report for March 1, 1958, to June 30, 1960. J. B. Langworthy, D. F. Hansen, C. B. Dobbie, R. C. O'Rourke, M. P. Shuler, R. J. Veith, I. M. Vitkovitsky.
U
5/61
- 5490 A Force-Area Study of Catalase Films. J. D. Bultman, J. M. Leonard. PB146162, Mi\$1.80, Ph\$1.80.
U
7/60
- 5492 Studies on the Fuel-Ignition-Suppression Capability of Foam-Covered Runways for Aircraft. H. B. Peterson, E. J. Jablonski, R. L. Tuve. PB161783, Mimeo\$1.75.
U
7/60
- 5494 Regulated Linear Transformer-Rectifier Power Supplies. D. S. Toffolo. PB146392, Mi\$2.40, Ph\$3.30.
U
7/60
- 5495 Electrophoretic Studies on Bacteria. Part I - Design and Performance of an Improved Apparatus for Electrophoresis by the Microscope Method. R. A. Neihof. PB146393, Mi\$2.40, Ph\$3.30.
U
8/60
- 5497 Parasitic Spiral Arrays. R. M. Brown, R. C. Dodson. PB146394, Mi\$3.00, Ph\$6.30.
U
8/60
- 5499 A Spiral-Grating Array. J. R. Donnellian, R. T. Close. PB146395, Mi\$2.40, Ph\$3.30.
U
8/60
- 5500B Bibliography of Unclassified NRL Formal Reports, Numbers 5000 to 5500. PB171907, Mimeo\$1.25.
U
5/61
- 5501 Microbial Inhibitors for Systems of Jet Fuel and Water. D. E. Klemme, J. M. Leonard. PB146402, Mi\$2.40, Ph\$3.30.
U
8/60
- 5502 Tables of the Einstein Energy, Specific Heat, and Derivative Specific Heat Functions. W. C. Overton, J. H. Hancock. PB146303, Mi\$2.70, Ph\$4.80.
U
7/60
- 5503 The Properties of Paints as Affected by Ultraviolet Radiation in a Vacuum - Part 1. A. M. Noonan, A. L. Alexander, J. E. Cowling. PB146486, Mi\$3.30, Ph\$7.80.
U
7/60
- 5504 Luminance Required of Opaque and Transparent Cathode-Ray Tube Phosphors. R. H. Brown. PB146610, Mi\$1.80, Ph\$1.80.
U
8/60
- 5505 Marine Borer Control. Part X - Evaluation of Creosote-Resin Solutions and Creosote Distillation Fractions. T. R. Price, T. R. Sweeney. PB161695, Mimeo\$50.
U
7/60
- 5506 High Temperature Oxidation of Iron-Chromium Binary Alloys in Water Vapor. Part I - A Preliminary Study of the Mechanism of Oxidation of Iron-Chromium Binary Alloys in Water Vapor. C. T. Fujii, R. A. Meussner. PB161696, Mimeo\$75.
U
9/60
- 5507 Crack Propagation Tests of High-Strength Sheet Materials. Part V - Air Melted and Consutrode AMS 6434 Steel. C. D. Beachem, J. E. Srawley. PB161697, Mimeo\$75.
U
8/60

- 5512 Satellite Launching Trajectory Calculations - A Multistage, Two-Dimensional Zero-Lift Program for NAREC. J. L. Hammersmith. PB147834, Mi\$1.80, Ph\$1.80.
- 5513 The Mutual Mechanical Radiation Resistance for all Values of ka of an Unbaffled Circular Rigid Piston with Pressure Released Back. S. Hanish. PB147832, Mi\$2.40, Ph\$3.30.
- 5514 The Use of Spheroidal Wave Functions in the Empirical Description of Scalar Wave Fields. S. Hanish. PB147963, Mi\$1.80, Ph\$1.80.
- 5515 The Radiation Mechanical Impedance of Multizone Radiators in a Prolate Spheroidal Baffle. S. Hanish. PB147964, Mi\$2.40, Ph\$3.30.
- 5516 Vacuum Induction Melting - Oxygen and Carbon in Iron. J. E. Srawley. PB161764, Mimeo\$0.50.
- 5517 Corrosion of Metals in Tropical Environments. Part 5 - Stainless Steels. B. W. Forgeson, C. R. Southwell, A. L. Alexander. PB161749, Mimeo\$0.75.
- 5518 Photodegradation of High Polymers. Part I - The Homogeneous Ionic Polymerization of α -Methylstyrene. R. B. Fox, L. Isaacs. PB147965, Mi\$2.40, Ph\$3.30.
- 5519 K Series X-Ray Excitation Efficiencies for Bulk Specimens. L. S. Birks.
- 5520 Elevated Temperature Diffusion in the Systems Nb-Pt, Nb-Se, Nb-Zn, Nb-Co, Ni-Ta, and Fe-Mo. R. E. Seebold, L. S. Birks. PB161767, Mimeo\$0.50.
- 5521 Minimum Toughness Requirements for High-Strength Sheet Steel. J. A. Kies, H. Romine, H. L. Smith, H. Bernstein. PB161786, Mimeo\$0.75.
- 5522 Data Transmission for the NRL Space Surveillance System. M. G. Kaufman, F. X. Downey.
- 5523 Design and Instrumentation of a Pound-Watkins Nuclear Magnetic Resonance Spectrometer. F. E. Geiger. PB148663, Mi\$3.30, Ph\$7.80.
- 5526 Atmospheric Radioactivity in South American and Antarctica. U L. B. Lockhart. 8/60 PB148664, Mi\$1.80, Ph\$1.80.
- 5528 Fission Product Radioactivity in the Air Along the 80th Meridian (West) During 1959. L. B. Lockhart, R. L. Patterson, A. W. Saunders, R. W. Black. PB148665, Mi\$2.40, Ph\$3.30.
- 5530 Photometry at Low Levels of Intensity. L. H. Dawson, E. F. DuPre. PB161834, Mimeo\$1.75.
- 5532 A Table of Three Integrals Related to the Planck Function. A. D. Anderson, M. P. Shuler, R. R. Best. PB149298, Mi\$2.40, Ph\$3.30.
- 5533 An $l/6.6$ High Dispersion Time-Resolving Grating Spectrograph. F. D. Harrington.
- 5534 A Semiconductor Binary Coordinate Converter. M. F. Williams, A. F. Thornhill, W. A. Richards. PB149297, Mi\$2.40, Ph\$3.30.
- 5545 Shock Design of Shipboard Equipment, Part I - Dynamic-Analysis Method. R. O. Beisheim, G. J. O'Hara. PB149520, Mi\$3.60, Ph\$9.30.
- 5547 The Effect of Differential Temperatures on the Fracture Toughness of Stretch-Oriented Polymethyl Methacrylate. H. L. Smith, W. E. Anderson, E. O. Cook. PB149850, Mi\$2.40, Ph\$3.30.
- 5548 The Relationship of a Retinal-Gain Index to System Performance. S. Seidenstein, R. Chernikoff, F. V. Taylor. PB149849, Mi\$1.80, Ph\$1.80.
- 5549 Wind-Induced Torques Measured on a Large Antenna. J. W. Titus. PB150319, Mi\$3.30, Ph\$7.80.
- 5550 Protection of Refractory Metals for High Temperature Service: Progress Report I - July 1, 1960, The Zinc-Base Coating for Niobium. B. F. Brown, R. A. Meussner, R. J. Goode, A. J. Pollard, G. Sandoz, T. C. Lupton, R. L. Newbegin, R. J. Hicks, J. A. Smith, S. W. Strauss, J. Stoop. PB161932, Mimeo\$1.00.
- 5551 The Measurement of Water-Vapor Distribution in the Stratosphere. H. J. Mastenbrook, J. E. Dinger. PB150618, Mi\$3.00, Ph\$6.30.
- 5552 Cancelled.
- 5553 A Study by Light Scattering of the Effect of High-Temperature on the Formation of Insolubles in Jet Fuels. R. L. Shuler, J. A. Krynitaky, H. W. Carhart. PB161921, Mimeo\$0.50.

- 5554 The Analysis of Contaminants in
U Aviators' Breathing Oxygen.
10/60 R. E. Kagarise, R. A. Saunders.
PB161946, Mimeo\$.75.
- 5555 A Thermodynamic Analysis of
U Solubility in Liquid Metal
12/60 Systems. J. L. White.
PB161990, Mimeo\$.75.
- 5556 Synergistic Surface Tension
U Effects from Mixtures of
10, 60 Fluorinated Alcohols with Con-
ventional Wetting Agents.
M. K. Burnett, W. A. Zisman.
PB150619, Mi\$2 40, Ph\$3.30.
- 5557 A Closed Circuit TV System
U for Passive Use at Night.
11, 60 G. T. Hicks, C. M. Whitfield.
PB161968, Mimeo\$.50.
- 5558 Proposal for the NRL Sector
U Focusing Cyclotron.
9, 60 R. O. Bondelid, J. W. Butler,
H. D. Holmgren, W. I. McGarry,
R. B. Theus.
- 5560 Removal of Organic Contaminants
U from Air by Type 13X Molecular
12, 60 Sieve. P. Gustafson, S. H. Smith.
PB171051, Mimeo\$.50.
- 5561 The Silver-Silver Oxide Electrode.
U Part 1 - Anodic Oxidation in
11/60 Alkaline Solutions. C. P. Wales.
- 5562 Kinetics of Hydrogen Evolution at
U Zero Hydrogen Partial Pressure.
12/60 S. Schuldiner.
- 5563 A Dry Chemical System for Carbon
U Dioxide Removal from Submarines.
11, 60 S. H. Smith.
PB171046, Mimeo\$.50.
- 5565 Filterability of Distillate Fuels.
U Part 1 - Development of Methods
11/60 and Effect of Filter Porosity.
A. J. Chiantella, J. E. Johnson.
PB161966, Mimeo\$.50.
- 5566 Ignition Studies. Part VI - The
U Effect of Chemical Structure
11/60 on the Spontaneous Ignition of
Hydrocarbons. W. A. Affens,
J. E. Johnson, H. W. Carhart.
PB161967, Mimeo\$1.00.
- 5567 Atmospheric Scattering in the
U Visible and Infrared. J. A. Curcio,
1/61 G. L. Knestrick, T. H. Cosden.
PB150919, Mimeo\$1.60.
- 5568 Radiant Transfer of Heat and
U Thermal Conductivity of Flinak
11, 60 (Salt "A").
C. T. Ewing, J. R. Spann,
R. R. Miller.
- 5569 O.U.O. Part II.
U A. Lowell, F. Brauer.
2, 61 F. Carpenter, D. Hansen,
J. H. Campbell.
- 5572 Isothermal Study of Concentration
U and Transport of Radioactive
12, 60 Stainless Steel Components
in Liquid Lithium.
W. N. Crofford, T. A. Kovacina,
R. R. Miller.
PB152495, Mimeo\$1.60.
- 5576 An $\frac{1}{2}$ 2.8 Low-Dispersion Time-
U Resolving Grating Spectrograph.
2, 61 F. D. Harrington.
PB152717, Mimeo\$1.60.
- 5578 An Analysis of the Relationship
U Between the Collision-Avoidance
1/61 Trajectory of an Aircraft and
Its Performance Capability.
P. A. Crafton.
PB171052, Mimeo\$.50.
- 5580 An Isocyanate Primer-Sealer for
U Masonry. J. R. Griffith, G. E. Rohl.
1/61 PB171077, Mimeo\$.50.
- 5581 Protection of Refractory Metals
U for High Temperature Service:
1/61 Progress Report 2 - October 1,
1960, Durability of the Zinc-Base
Coating for Niobium.
B. F. Brown, R. A. Meussner,
R. J. Goode, G. Sandoz,
T. C. Lupton, R. L. Newbegin,
J. Stoop, J. A. Smith,
S. W. Strauss, A. J. Pollard.
PB171159, Mimeo\$.75.
- 5582 Preliminary Observations on the
U Effectiveness of Heat Treatment
1/61 for the Recovery of Properties
of Irradiated Steels.
J. R. Hawthorne, L. E. Steele.
PB171188, Mimeo\$.50.
- 5587 Readout Control Unit for Auto-
U matic Type-Punch Systems.
2/61 J. W. Butler.
PB153801, Mimeo\$2.60.
- 5588 An Improved "Twist-Turn" Wave-
U guide Junction. R. S. Potter.
1/61 PB154384, Mimeo\$1.10.
- 5590 Penetration of Electromagnetic
U Waves into Ionized Gases.
2/61 W. R. Faust.
PB153580, Mimeo\$1.10.
- 5591 Photodegradation of High Polymers.
U Part II - Vacuum Photolysis of
2/61 Poly- α -Methylstyrene.
S. Stokes, R. B. Fox.
PB153893, Mimeo\$1.60.
- 5592 Determination of the J-Values of
U S-Type Neutron Resonances by
2/61 Multiple Scattering.
A. W. Saenz, S. Podgor.
PB153896, Mimeo\$1.60.
- 5593 The NRL Model E-5753 Leak
U Detector. C. C. Minter,
1/61 S. F. Anderson, R. W. Dolk.
PB171358, Mimeo\$.50.

- 5596 Hydrogen Overpotential. Part 1 -
U Characteristic Functions and
3/61 Parameters in the Theory of
Hydrogen Overpotential.
G. W. Castellan.
- 5597 Hydrogen Potential. Part 2 -
U Interpretation of Some Measure-
3/61 ments of Hydrogen Overpotential
on Palladium. G. W. Castellan.
- 5598 The Influence of Temperature on
U the Viscosity and Drainage Rates
3/61 of Mechanically Produced Fire-
Fighting Foams. E. J. Jablonski.
PB153974, Mimeo\$1.60.
- 5599 Supplement. Project Artemis -
U High Power Acoustic Source.
7/61 Description of the Facility as
Installed in the USNS Mission
Capistrano (T-AG 162).
A. T. McClinton.
- 5601 Curves of Atmospheric-Absorption
U Loss for Use in Radar Range
3/61 Calculation. L. V. Blake.
AD255135, Mimeo\$2.60.
- 5602 Elevated Duct Propagation in
U the Trade Winds.
6/61
- 5603 The Effect of Cold Work and Tem-
U perature on the Strength and
4/61 Structure of Steel. P. Shahinian,
M. R. Achter.
AD258767, Mimeo\$.75.
- 5604 Portable Precision Frequency
U Meter and Precise Signal
3/61 Generator. J. E. McGeogh,
G. K. Jensen.
PB258672, Mimeo\$3.60.
- 5606 Surface Chemical Methods of Dis-
U placing Water and/or Oils and Sal-
2/61 vaging Flooded Equipment. Part 1 -
Practical Applications. H. R. Baker,
P. B. Leach, C. R. Singleterry,
W. A. Zisman.
PB171479, Mimeo\$.75.
- 5607 Atmospheric Refraction of Radio-
U Frequency Electromagnetic Waves.
4/61 P. F. Nicholson.
AD256768, Mimeo\$3.60.
- 5608 Naval Research Laboratory Papers
U Presented at the Tenth International
7/61 Astrophysical Symposium, Liege,
Belgium - July 11-15, 1960.
AD261014, Mimeo\$5.60.
- 5609 Procedures for the Evaluation of
U Fracture Toughness of Pressure-
6/61 Vessel Materials.
W. S. Pellini, J. E. Srawley.
AD260176, Mimeo\$.75.
- 5610 Vibrational Contributions to
U Specific Heat Near Phase Changes.
5/61 H. B. Rosenstock.
AD257465, Mimeo\$1.60.
- 5611 A Method of Establishing the Best
U Voltage Levels for Future Naval
5/61 Aircraft. J. P. O'Connor.
AD257795, Mimeo\$2.60.
- 5612 A Highly Accurate Square-Law
U Recorder. J. A. Alexander.
8/61 AD266595, Mimeo\$2.60.
- 5613 Effect of Glare on Eye Behavior
U During Growth of Dark Adaptation
4/61 and During Blackout Conditions.
L. J. Boardman.
AD255725, Mimeo\$1.60.
- 5615 The Distribution of Reflecting
U Cross Sections of Satellites.
5/61 R. E. Brescia, R. R. Zirm.
AD259990, Mimeo\$1.60.
- 5616 The Application of an X-Y Pulsed
U Measuring System to Polariza-
7/61 tion Studies. Part 1 - The
Hydrogen Reaction on Platinum.
C. H. Presbrey, S. Schuldiner.
AD263166, Mimeo\$2.60.
- 5617 The Slow Growth and Rapid Prop-
U agation of Cracks. J. E. Srawley.
5/61 AD259739, Mimeo\$1.60.
- 5618 Navy High-Impact Shock Machines
U for Lightweight and Medium-
6/61 weight Equipment. I. Vigness.
PB171585, Mimeo\$1.00.
- 5620 Protection of Refractory Metals
U for High Temperature Service.
7/61 Progress Report 3 - January 1,
1961. Further work on the Zinc-
Based Coating for Niobium.
G. Sandoz, R. A. Meussner,
R. J. Goode, T. C. Lupton,
R. J. Hicks, R. L. Newbegin,
J. Stoop, J. A. Smith,
S. W. Strauss, A. J. Pollard.
AD263125, Mimeo\$1.00.
- 5622 Equations for Bistatic Doppler
U Shift and Rate of Change of
6/61 Doppler Shift of Dark Satellite
Observations. W. D. Dahl.
AD260175, Mimeo\$1.60.
- 5623 The Adsorption of Oil-Soluble
U Sulfonates at the Metal/Oil
7/61 Interface. W. D. Bascom,
C. R. Singleterry.
AD261016, Mimeo\$.50.
- 5624 An Orbit Computer for a
U Satellite Position Display.
7/61 H. G. Talmadge.
AD261475, Mimeo\$1.00.
- 5625 Gamma-Ray Scanning Techn-
Uiques for Fast Breeder Reactor
7/61 Safety Studies. L. A. Beach,
A. G. Pieper, M. P. Young,
AD261190, Mimeo\$7.60.
- 5626 A Note on Selection of an Atmos-
U pheric Refractivity Model for
4/61 Radar Range-Height-Angle
Charts. L. V. Blake.
AD255953, Mimeo\$1.60.
- 5627 Drop-Outs in Magnetic Tape
U Systems. R. H. Carson.
8/61
- 5629 Effect of Irradiation Temperature
U on Neutron-Induced Changes in Notch
6/61 Ductility of Pressure-Vessel Steels.
L. E. Steele,
J. R. Hawthorne.
AD259361, Mimeo\$.50.
- 5630 Annual Progress Report - The
U Present Status of Chemical Research
7/61 in Atmosphere Purification and
Control on Nuclear-Powered Sub-
marines. V. R. Piatt, E. A. Ramskill.
AD260235, Mimeo\$2.75.

- 5632 A Comparison of the Neutron Beams
U from a Radial Beam Port and from
6/61 the Tangential Port of the NRL
Reactor as Sources for Neutron-
Capture Gamma Rays. R. H. Vogt.
AD260538, Mimeo\$1.10.
- 5634 A 10:1 Frequency Multiplier with a
U 10:1 Input Frequency Range and
7/61 Automatic Fine Tuning.
J. E. McGough, G. K. Jensen.
AD262438, Mimeo\$.50.
- 5635 The Silver Oxide-Zinc Alkaline
U Primary Cell. Part V - Compari-
7/61 son of Potassium Hydroxide,
Cesium Hydroxide, and Rubidium
Hydroxide Electrolytes.
C. M. Shepherd, H. C. Langelan.
AD262437, Mimeo\$1.60.
- 5638 A Shipboard Satellite Position
U Display. H. G. Talmadge.
8/61 AD263436, Mimeo\$2.60.
- 5639 Solubilization of Methanol by Soap
U Micelles in Toluene as Measured
7/61 by Gas Chromatography.
S. Kaufman.
AD262439, Mimeo\$1.60
- 5640 Transistorized Ring-Type Pulse
U Generator. J. M. Marzolf.
7/61 AD261200, Mimeo\$.50.
- 5641 Preparation and Properties of Some
U Hydrocarbon-Soluble Cerium and
9/61 Iron Compounds. H. R. Baker,
J. G. O'Rear, P. J. Sniegoski,
R. E. Kagarise.
AD266599, Mimeo\$2.60.
- 5642 A High Resolution Investigation
U of the Relative Spectral Attenuation
5/61 Coefficients of Water - Part I:
Preliminary. L. F. Drummeter,
G. L. Knestrick.
AD257893, Mimeo\$.50.
- 5643 Protection of Refractory Metals
U for High Temperature Service:
8/61 Progress Report 4 -
April 1, 1961, Final Quarterly
Progress Report on the
Zinc-Base Coating for Niobium.
B. F. Brown, R. A. Meussner,
C. D. Carpenter,
R. J. Goode, A. J. Pollard,
G. Sandoz,
T. C. Lupton, R. L. Newbegin.
AD265418, Mimeo\$.50.
- 5645 Naval Data Handling System
U Circuits. F. R. Fluhr.
8/61 AD263939, Mimeo\$2.60.
- 5646 Electronic Equilibrium in
U Free-Air Chambers and a Proposed
8/61 New Chamber Design. F. H. Attux.
AD262440, Mimeo\$1.60.
- 5647 A Portable Thermistor-Bridge
U Gas Leak Detector. A. Hafner.
7/61 AD260385, Mimeo\$.75.
- 5648 Atmospheric Attenuation Coefficients
U in the Visible and Infrared Regions.
8/61 G. L. Knestrick, T. H. Cosden,
J. A. Curcio.
AD263441, Mimeo\$1.60.
- 5649 The Synthesis of an Antenna with
U a Gaussian-Shaped Radiation
8/61 Pattern. O. D. Sledge.
AD267193, Mimeo\$1.60.
- 5650 The Fiberglass Motor Case in
U the Polaris Program.
9/61 H. Bernstein, J. A. Kies.
AD264759, Mimeo\$.50.
- 5652 Satellite Track Computation
U for Display Purposes.
10/61 G. L. Hall.
- 5655 Analysis of the Thermostructural
U Requirements for the Atmospheric
8/61 Re-Entry of Satellites and Space
Vehicles. W. S. Pellini.
AD264753, Mimeo\$3.60.
- 5656 Doppler Spectral Characteristics
U of Aircraft Radar Targets at
8/61 S-Band. R. E. Gardner.
AD263478, Mimeo\$3.60.
- 5657 Thermionic Electron Sources.
U G. A. Haas.
10/61 AD266039, Mimeo\$.75.
- 5658 Atmospheric Radioactivity at
U Kodiak and Wales, Alaska.
8/61 L. B. Lockhart.
- 5659 Satellite Coordinates and Real-Time
U Position Computation.
9/61 W. D. Dahl.
AD264949, Mimeo\$1.60.
- 5661 An Optical Technique for the
U Measurement of Plastic Bending
8/61 Strains at Elevated Temperature.
G. J. Danek, H. H. Smith,
M. R. Achter.
AD263935, Mimeo\$.50.
- 5662 Shear Characteristics of Ice
U in Bulk, at Ice/Solid Interfaces,
8/61 and at Ice/Lubricant/Solid Inter-
faces in a Laboratory Device.
T. F. Ford, O. D. Nichols.
AD264139, Mimeo\$.50.
- 5663 The Effect of Polar-Nonpolar
U Solutes on the Water Wettability
9/61 of Solid Surfaces Submerged in
Oil. W. D. Bascom,
C. R. Singleterry.
AD265220, Mimeo\$.50.
- 5666 High-Temperature Fatigue in
U Controlled Environments. G. J. Danek,
9/61 H. H. Smith, M. R. Achter.
AD265419, Mimeo\$.50.
- 5667 Data Reduction in Physics.
U R. G. Glassner.
10/61 AD266970, Mimeo\$3.60.
- 5668 Antenna and Receiving-System
U Noise-Temperature Calculation.
9/61 L. V. Blake.
AD265414, Mimeo\$5.60.
- 5671 Electrical Breakdown in
U Vacuum. R. P. Little,
10/61 S. T. Smith, H. D. Arnett.
AD266603, Mimeo\$2.60.
- 5672 The Naval Data Handling
U System Capabilities in Position
10/61 and Rate-Aided Target Tracking.
S. C. Wardrip.
AD267375, Mimeo\$3.60.
- 5673 Resistance of Woods to Biological
U Deterioration and Tropical
2/62 Environments. Part I. Screening
Tests of a Large Number of Wood
Species. C. R. Southwell, C. W. Hummer.

- 5674 Radiation Effects: Apparatus for In-Pile Electrical Measurements and Effect of Radiation Upon Strain Gage Insulation Components. N. J. Rendler. AD265773, Mimeo\$3.60.
U
10/61
- 5675 Heat-Transfer Studies on Some Stable Organic Fluids in a Forced Convection Loop. J. P. Stone, C. T. Ewing, C. H. Blachly, E. W. Steinkuller, J. R. Spann, B. E. Walker, R. R. Miller.
U
10/61
- 5676 The Transmission of Light Signals Beyond the Horizon. J. A. Curcio, G. L. Knestrick, T. H. Cosden, L. F. Drummer. AD265925, Mimeo\$2.60.
U
10/61
- 5677 Orange Wainscot Lighting System for Use in Combat Information Centers. D. J. McLaughlin. AD265424, Mimeo\$1.60.
U
10/61
- 5678 An Instrument for "On-Stream" Stripping and Analysis of Dissolved Gases in Water. D. D. Williams, R. R. Miller. AD265420, Mimeo\$1.60.
U
9/61
- 5679 An Investigation of Electrode Processes by Microscopy. Part 1 - Battery Plate Conversion to Lead Dioxide and Sponge Lead from Pastes Made of the Lower Oxides. A. C. Simon, E. L. Jones.
U
10/61
- 5680 Surface Chemical Methods of Displacing Water and/or Oils and Salvaging Flooded Equipment. Part 2 - Field Experience in Recovering Equipment Damaged by Fire Aboard USS Constellation and Equipment Subjected to Salt-Spray Acceptance Test. H. R. Baker, P. B. Leach, C. R. Singleterry. AD265487, Mimeo\$3.50.
U
9/61
- 5681 Techniques for the Rapid Estimation of Accelerometer Natural Frequencies. E. W. Clements, M. G. Stone. AD265913, Mimeo\$1.60.
U
10/61
- 5683 Ideal Limiting. Part 1 - The Effect of Ideal Limiting on Signals and on Noise. S. F. George, J. W. Wood.
U
10/61
- 5684 Ideal Limiting. Part 2 - The Operation of an Ideal Limiter on Signals Imbedded in Noise. S. F. George, J. W. Wood. AD266070, Mimeo\$3.60.
U
10/61
- 5685 The Separation of Water from Fuels. Part 1 - Development of Laboratory Evaluation Method. J. A. Krynetsky, W. D. Garrett. AD263769, Mimeo\$1.60.
U
8/61
- 5686 The Effects of Irradiation on Magnetic Properties of Alloys and Ferrites. A. I. Schundler. AD262261, Mimeo\$1.00.
U
8/61
- 5687 Microwave Propagation Measurements Over the Pacific Ocean, 1946. W. S. Ament, W. Binnian, W. W. Carter.
U
2/62
- 5688 Experimental Facilities for the Measurement of Acoustical Waves in Water. W. G. Neubauer. AD268933, Mimeo\$2.60.
U
10/61
- 5689 Studies of Oxygen Production by Mass Culture of Algae. Culture of Algae. P. J. Hannan, C. Patouillet, R. Shuler.
U
12/61
- 5690 Effects of Transmission Band and Message Context on Speech Intelligibility. J. M. Pickett. AD268609, Mimeo\$1.60.
U
10/61
- 5691 The Mutual Radiation Impedance of Circular Rings on Spheroidal Baffles. S. Hanish. AD268834, Mimeo\$1.10.
U
11/61
- 5692 Fission Product Radioactivity in the Air Along the 80th Meridian (West) During 1960. L. B. Lockhart, R. L. Patterson, A. W. Saunders, R. W. Black. AD268608, Mimeo\$2.60.
U
10/61
- 5693 The Lead Calcium Battery. Part 1 - Introduction and Background. J. Burbank, C. P. Wales.
U
11/61
- 5695 Electron Beam Interaction in a Cuccia Coupler and its Effect on Quadrupole Amplifier. H. D. Arnett. AD266597, Mimeo\$1.60.
U
10/61
- 5696 A Comparison of Quickened and Unquickened Displays for the Monitoring of Vehicle Performance Under Full Automatic Control. G. H. Runner, J. S. Sweeney.
U
10/61
- 5697 Inelastic Neutron Gamma Angular Correlation for the $C^{12}(n,n'\gamma)C^{12}$ Reaction. R. B. Theus, L. A. Beach, A. H. Aitken. AD267282, Mimeo\$1.60.
U
10/61
- 5698 Factors Affecting the Determination of Monoethanolamine Normality by Refractive Index Measurement. C. H. Blachly, H. Ravner, C. R. Singleterry. AD267808, Mimeo\$1.60.
U
10/61
- 5699 Constitutional Effects on Adhesion and Abhesion. W. A. Zisman. AD268725, Mimeo\$2.60.
U
11/61

•
•

SECTION 2
AUTHOR INDEX

•
•

AUTHOR INDEX

A

Abel, J. E., 4949, 5046, 5170.
 Abelson, P. H., 1977, 1981, 2127, 2982.
 Abraham, G., 2410.
 Achter, M. R., 5036, 5037, 5133, 5138, 5603, 5661, 5666.
 Ackerlind, C. G., 3560, 3646, 3871, 4730, 4737.
 Ackerlind, E., 2724.
 Adams, R. J., 2201, 2204, 2261, 2337, 2349, 2350, 2486, 2924, 3026, 3412, 3652, 3831, 3855, 4303.
 Adcock, M. D., 3126.
 Affens, W. A., 5437, 5566.
 Ahearn, J. L., 4611, 4835, 4866, 5468, 5542.
 Ahern, C. R., 3322.
 Ahlberg, J. E., 1244, 1304.
 Ainsworth, J., 5168.
 Aitken, A. H., 4962, 5697.
 Albert, G. J., 2856.
 Alderson, W. S., 2522, 3086, 3368, 3815, 4268, 4584.
 Alexander, A. L., 1532, 1555, 1593, 1680, 1740, 1815, 1820, 1860, 1874, 1934, 2413, 2489, 2558, 2591, 2676, 2744, 2922, 3011, 3421, 3437, 3685, 4409, 4411, 4557, 4672, 4803, 4929, 5002, 5153, 5257, 5370, 5384, 5503, 5517, 5673.
 Alexander, J. A., 5612.
 Alexander, R. M., 2970.
 Allen, F. H., 2902.
 Allen, J. V. H., 3480.
 Allen, P. J., 3110, 3116, 4487, 5214.
 Allison, B. A., 4252, 4345.
 Althouse, C. F., 2484.
 Alpert, M., 3924.
 Ambrose, J. R., 2910, 3944, 4160, 4366, 4469.

Ament, W. S., 2232, 2332, 2524, 3071, 3136, 3238, 3318, 3350, 3639, 4334, 4747, 5057, 5218, 5307, 5687.
 Anderson, A. D., 4649, 4682, 4697, 4735, 5200, 5371, 5532.
 Anderson, G. L., 2869.
 Anderson, M. P., 5366.
 Anderson, P. W., 2240.
 Anderson, S. F., 5593.
 Anderson, W. E., 5547.
 Anderson, W. L., 3608, 4367, 5359.
 Andreatch, A. J., 4430.
 Andrews, D. H., 1342.
 Ansell, G. S., 5176, 5206.
 Antoni, C. M., 3022 Vol. 2, App. C.
 Apblett, W. R., 2515, 2913, 4597.
 Appeldoorn, J. K., 2185.
 Appelman, C. B., 3889.
 Archer, D. H., 4115, 5019.
 Arkin, L. S., 3401.
 Armington, A. F., 4353, 4363.
 Armstrong, J. H., 3151.
 Armstrong, R. W., 1270, 1286, 1296, 1298, 1306, 1312, 1326, 1345, 1406, 1439, 1445, 1449, 1476, 1482.
 Arndt, F., 2763, 2835, 2928.
 Arnett, H. D., 2689, 2779, 4588, 4819, 5671, 5695.
 Arnold, G. W., 3892, 4065, 4271.
 Arnold, P. N., 1514, 1554, 1582, 1618.
 Arnold, R. G., 3140.
 Arnotttt, R. L., 4941.
 Asbury, G. F., 4001, 4028, 4313, 4665.
 Ashby, R. M., 3007.

Askew, W. H., 3145.
 Atkins, D. C., 2227, 2541, 2576, 3118.
 Atkins, W. W., 5319.
 Atkinson, E. E., 4971, 5156.
 Atkinson, H. B., 3105, 3152, 3201, 3287, 3330.
 Attix, F. H., 5646.
 Averitt, J. M., 5166.
 Awramik, J., 3198, 3627, 4079.

B

Babecki, A. J., 5058, 5220.
 Bachelor, W. B., 4097, 4471, 5425.
 Badessa, R. S., 2445, 2460, 2620, 3175.
 Baer, W. H., 2375, 2646, 3254, 3414, 3871.
 Baler, R. V., 5251, 5355, 5491.
 Bailey, A. W., 4954.
 Bailey, E. F., 3684, 3732, 3849, 4183, 4273.
 Bailey, G. C., 5161.
 Bailey, S. O., 5271.
 Bainum, C., 5595.
 Bakanowski, A. E., 2548.
 Baker, D. W., 3064, 3741.
 Baker, Hayward R., 1857, 1902, 1954, 2227, 2273, 2474, 2541, 2576, 2923, 3047, 3100, 3364, 3805, 3824, 3918, 4175, 4319, 4618, 4627, 5316, 5429, 5457, 5474, 5606, 5641, 5680.
 Baker, Homer R., 3807, 4012, 4225, 4515.
 Baker, W. O., 2363, 3355, 3603.
 Balch, C. W., 1586.
 Baldwin, A. W., 4283, 4436, 4987.
 Baldwin, C. H., 4368, 4461.
 Baldwin, F. H., 2571.

Naval Research Laboratory

Baldwin, J. H., 2170, 2307.
 Baldwin, R. S., 1048, 1066, 1128, 1167, 1169, 1300, 1351, 1395, 1415.
 Ball, L. W., 3377.
 Ballentine, J. B., 1961, 2288, 2439, 2591, 2744, 3421.
 Balwanz, W. W., 3164, 3399, 3686, 4076, 4229, 4232, 4492, 4869, 5174, 5193, 5378, 5388, 5636.
 Barauck, A. H., 2901.
 Barber, C. L., 1961, 2269.
 Barbera, J., 4397.
 Barbour, M. E., 3523.
 Barker, C. B., 3215, 3438, 3513, 3752.
 Barnes, C. B., 2809, 2942, 2957, 2959.
 Barr, W. J., 2467, 2524, 2793.
 Barrett, A. H., 4809.
 Barrett, F. J., 4047.
 Barrett, W. K., 3742.
 Bartholomew, C. A., 4458, 4992, 5055, 5595.
 Barton, A. M., 5599.
 Bascoin, W. D., 5226, 5422, 5429, 5623, 5663.
 Bastien, C. J., 3153.
 Bauchman, R. W., 2565.
 Baumann, R. C., 4489, 5273.
 Baus, R. A., 3514, 3629, 3683, 3666, 3942, 4039, 4069, 4218, 4221, 4318, 4509, 4607, 4760, 4965, 5041, 5208, 5239, 5249, 5390.
 Bayston, T. E., 3691, 3919.
 Beach, L. A., 3967, 4145, 4146, 4275, 4277, 4330, 4412, 4484, 4581, 4673, 4895, 4701, 4821, 4886, 5017, 5045, 5052, 5318, 5408, 5625, 5697.
 Beachem, C. D., 5127, 5263, 5348, 5460, 5507.
 Bean, E. C., 5433.
 Bearce, L. S., 5381, 5403.
 Beard, D. B., 2627, 3212.
 Bebbs, E. H., 4165, 4308, 4729, 5196.
 Beck, C. A., 4512, 4519, 4544.
 Beck, H. M., 3336, 3496, 3634, 3915, 4961.
 Beck, L. W., 2785, 2787, 2820.
 Becke, E. G., 5155.
 Becker, M., 2956, 3031, 3139.
 Beegle, D. H., 1617, 1748.
 Beggs, E. B., 4035.
 Beij, P. H., 2262, 2891.
 Belasheim, R. O., 3970, 4312, 5009, 5119, 5409, 5458, 5545.
 Benedict, R. L., 4210, 4317.
 Benemelis, R. L., 2177, 2188, 2195, 2311, 2444, 2462, 2676, 2922, 2946, 3437.
 Bennett, W. H., 4479, 4993.
 Berbert, J. H., 5104.
 Berg, O. E., 3014.
 Berg, W. E., 5419.
 Berger, B., 1720.
 Berghoefler, F. G., 2441.
 Bergstrahl, T. A., 3030, 3063, 3120, 3171, 3236, 3851, 3967, 4308, 4495, 4897.
 Berliner, H. J., 5270.
 Berner, J. P., 2737.
 Bernett, M. K., 5207, 5325, 5471, 5556.
 Bernstein, H., 3670, 5521, 5650.
 Berryhill, D. J., 5245.
 Berryman, L. H., 3567.
 Bertschy, A. W., 4121, 4353, 4363, 4853.
 Best, N. R., 2643, 3030, 3120, 3171, 3535, 3999, 4016, 4393, 4418.
 Best, R. R., 5532.
 Bewig, K. W., 2304, 2693, 2828, 2887, 2988, 2990, 3049, 3173, 5026, 5096, 5382.
 Bey, P. P., 4162, 4639.
 Bieber, C. F., 3529, 3698, 3803, 4082, 4101, 4805, 5438.
 Bigelow, W. C., 3267.
 Billica, H. R., 2124, 2322, 2521, 2655, 2682, 2683, 2696.
 Billington, D. S., 3159.
 Bingham, B. C., 3035, 3707.
 Bingham, W. L., 5412.
 Binnian, W., 2565, 5687.
 Birks, L. S., 2012, 2235, 2246, 2434, 2517, 2681, 3081, 3443, 3693, 3749, 3867, 4402, 4564, 4623, 5461, 5519, 5520.
 Birmingham, H. P., 3098, 3249, 3297, 3298, 3837, 4109, 4333, 4380, 5013, 5205, 5262.
 Birnbaum, M., 3080, 4090.
 Bishop, H. F., 1909, 1935, 1956, 2142, 2233, 2255, 2310, 2335, 2637, 2745, 2983, 3389, 3647, 3785, 3786, 3801, 3811, 4576, 4677, 4713, 4718, 4725, 4730, 4737, 4761, 4797, 4857.
 Bisplinghoff, R. L., 3229.
 Bissell, E. E., 2961, 3332, 3417, 3695, 4776.
 Bittinger, C., 1097, 1196, 1239, 1302, 1350, 1409, 1496, 1585.
 Blachly, C. H., 4990, 5675, 5698.
 Black, C. E., 2592, 2909.
 Black, C. J., 2952.
 Black, R. R., 1756.
 Black, R. W., 5528, 5692.
 Blackford, V. L., 3413, 3882.
 Blake, L. V., 1974, 2022, 2081, 2158, 2183, 2217, 2291, 2361, 2381, 2423, 2455, 3165, 3831, 4549, 4840, 5601, 5626, 5668.
 Blake, R. E., 3276, 3302, 3596, 3597, 4325, 4420, 4450, 4465, 4535, 4699, 4739, 4750, 5009, 5102, 5119.
 Blake, R. F., 4120, 4144, 4255, 4274, 4425.
 Blanchly, C. H., 5225.
 Blifford, I. H., 3079, 3140, 3378, 3514, 3626, 3683, 3862, 3866, 3942, 4036, 4038, 4039, 4069, 4118, 4216, 4221, 4509, 4607, 4654, 4760, 4965, 5041, 5208, 5249.
 Bliss, W. R., 2411, 2417.
 Blizzard, R. H., 2039, 3405, 3419, 3602.
 Blodgett, H. A., 2670.
 Bloom, M. C., 4605, 4644, 4711, 5152, 5427.
 Boardman, L. J., 3143, 3591, 3740, 4546, 5241, 5296, 5380, 5613.
 Bogard, A. D., 3865, 4131.
 Bogardus, H. F., 2876, 3003, 5038, 5118, 5164, 5349.
 Bohnert, J. I., 3686, 4888.
 Bolljahn, J. T., 2240, 2251.
 Bologna, J. M., 5180.
 Bondelid, R. O., 5083, 5558.
 Bonham, L. L., 2184, 2220, 2260, 2381, 2450, 2545, 4301.
 Boone, E. L., 4364.
 Boothby, L. W., 2380, 262.

Author Index

- Borchardt, O. F., 5415.
- Bordeau, T. E., 3139.
- Borgstrom, P., 1012, 1019, 1031, 1049, 1080, 1119, 1127, 1150, 1160, 1208, 1210, 1224, 1279, 1280, 1291.
- Bost, R. W., 1394, 1499, 1563.
- Boudreau, C. A., 4658.
- Bourdeau, R. E., 2956, 3031, 4625, 4755, 5099.
- Bourland, L. T., 1483, 1730, 1738, 1761, 1839, 1840, 1922.
- Bowen, J. H., 4913, 5186, 5262.
- Bower, W. E., 1088, 1099, 1112, 1131, 1495, 1512, 1513, 1537, 1542, 1649, 1693, 1729, 1732, 1733, 1754, 1780, 1818, 1844, 1851, 1869, 1871, 1875, 1918, 1920, 1927, 1928, 1929.
- Bowers, R. C., 3836, 4167, 4389, 4539, 4686, 5463, 5466.
- Boyd, F. E., 2854, 3209, 3780, 3814, 4258, 4848, 4871, 4934, 4959, 5378.
- Boyer, M. H., 1868, 1877, 1877A, 1877B, 1986, 2315, 2829, 2630, 2665, 2981.
- Bradeen, P., 2866.
- Bradford, J. N., 4480, 4805.
- Brady, J. J., 3599.
- Braemer, V., 2362.
- Brancato, E. L., 3169, 3621, 3637, 3735, 5060.
- Brandenburg, R. L., 4811.
- Brandt, F. A., 2363, 3785.
- Brauer, F. L., 5312, 5569.
- Braun, E. H., 4077.
- Bredall, C. H., 3539.
- Breen, J. E., 4523.
- Breetz, L. D., 3258, 3795, 5178.
- Brescia, R. E., 4045, 5107, 5289, 5615.
- Brewer, G. R., 3205.
- Bridge, R. B., 5272.
- Bridger, J. M., 3139, 3583, 3641, 3716, 3751, 3830, 3854, 3946, 4169, 4407, 4513.
- Briggs, C. W., 1026, 1047, 1075, 1108, 1182, 1229, 1264, 1301, 1319, 1329, 1352, 1355, 1376, 1420, 1423, 1424, 1474, 1479.
- Brinkman, H. A., 1838, 1854, 1858, 1859, 1873, 1885, 1913, 1947, 2071.
- Brinks, W. J., 3218.
- Brinnick, F. E., 2230, 2387, 2662.
- Britt, J. R., 3475, 3827.
- Brock, J. S., 1663, 1677, 1723, 1774, 1816.
- Brockway, L. O., 3021.
- Brodsky, A., 4324, 4403, 4643, 4746, 5122.
- Brodzinsky, A., 2367, 2769, 3092, 3291, 3458, 4287, 4381, 4390.
- Brogden, J. W., 2699, 2765, 2889, 3024, 3150, 3269, 3288, 4135, 4335, 4520.
- Brooks, E. J., 3867.
- Brooks, F., 4833.
- Brooks, J. G., 2619.
- Brophy, J. E., 2499, 2681, 3192, 3545, 3680, 3840, 3898, 3971, 4175.
- Brotzen, F. R., 4733.
- Brotzman, J., 4419.
- Brouk, R. H., 2003, 2013, 2228, 2357, 2374.
- Brown, B. F., 4839, 4906, 4961, 5550, 5581, 5643.
- Brown, D. M., 5524, 5662.
- Brown, G. M., 3924.
- Brown, L. O., 2930.
- Brown, R. H., 4283, 4299, 4372, 4862, 4863, 5072, 5477, 5478, 5504.
- Brown, R. M., 4218, 4413, 4784, 5173, 5497.
- Brown, R. W., 3731.
- Brown, S. K., 3088, 3307, 3388.
- Brown, W. S., 5061.
- Bruckner, W. H., 1258, 1303, 1382, 1419.
- Bryan, J. W., 3737, 4014, 4272.
- Bryant, G. K., 5543.
- Bryant, H. M., 2095, 3209, 3690, 3913.
- Bryant, J. S., 1082, 1092, 1096, 1101, 1106, 1118, 1123, 1125, 1137, 1142, 1147, 1148, 1156, 1158, 1166, 1171, 1174, 1184, 1198, 1203, 1206, 1215, 1218, 1220, 1221, 1226, 1237, 1242, 1253, 1256, 1265, 1283, 1289, 1290, 1320, 1322, 1325, 1330, 1333, 1335, 1348, 1358, 1359, 1363, 1365, 1369, 1373, 1385, 1405, 1408, 1411, 1444, 1451, 1455, 1468, 1518, 1535, 1545, 1557, 1566, 1583, 1627, 1631, 1639, 1654, 1679, 1830, 1852, 1884, 1963, 1964, 1978, 1992, 2005, 2015, 2017, 2018, 2041, 2043, 2054, 2066, 2077, 2083, 2090, 2103, 2119, 2187.
- Bryant, R. W., 4196, 4658, 4834.
- Buchanan, C. L., 3691, 4768, 5160.
- Buchner, B., 3645.
- Buckley, E. P., 4565, 4996, 5003.
- Bukey, J. R., 2915.
- Bukowski, A., 5140.
- Bulger, W. L., 2980.
- Bullard, R. H., 1867.
- Bullock, G. M., 3582, 4046, 4223, 4626, 4883.
- Bultman, J. D., 4409, 4411, 4423, 4534, 4563, 4620, 5490.
- Burbage, A. D., 5089.
- Burbage, C. H., 1840, 2479, 4269, 4599.
- Burbank, J. B., 3277, 3481, 3510, 3941, 4078, 5135, 5298, 5693.
- Burdeaux, J. B., 4120.
- Burdy, L. M. J., 3669.
- Burgess, D. S., 1702, 1904, 2086, 2153, 2571, 2777, 3009.
- Burgess, W. B., 1030, 1140, 1250, 1285, 1347, 1347A, 1380, 1635, 1646, 2312, 2323, 2324, 2400, 2437.
- Burke, C. F., 3566.
- Burke, D. J., 1507, 1604, 1614, 1637.
- Burke, J. T., 3096, 3135, 3247, 3331, 3758, 4149.
- Burkett, J. A., 5218.
- Burkett, J. W., 2687, 2935, 2999.
- Burmeister, M., 2748.
- Burnett, J. C., 4138, 4947, 4986.
- Burnett, M. L., 2609, 2694, 2837, 2867, 2920, 2997.
- Burnight, T. R., 2956, 3031, 3130, 3139, 3171, 4226.
- Burstein, E., 3880, 4049, 4501, 4595.
- Burtie, J. L., 1573.
- Burton, J. K., 3425, 4160, 5309.
- Burton, J. O., 1224.
- Burwell, R. L., 2656, 2953, 3093.
- Butler, C. P., 3069, 3097, 3984.
- Butler, G. J., 1599.
- Butler, J. W., 5282, 5410, 5558, 5571, 5587

Naval Research Laboratory

Buttrey, D. E., 4442, 4696.

Byer, D. L., 3060.

Byrd, J. D., 5337, 5670

C

Cahill, W., 5199.

Cahill, W. J., 1107, 1111, 1149.

Caldwell, B., 4417.

Caldwell, P. A., 2589, 3346.

Callahan, R. M., 4176.

Callinan, T. D., 3191, 3275, 3397, 3836, 4005, 4019, 4042, 4044, 4064, 4488, 4783, 4836.

Camp, P. R., 2383, 2386, 2388.

Campbell, J. H., 4519, 4544, 5294, 5524, 5535, 5544, 5589.

Campbell, L. F., 2205, 2650, 2730.

Camfield, R. H., 1029, 1052, 1121, 1144, 1211.

Carapella, L. A., 1842, 1876.

Cardinal, L. C., 4264.

Carhart, H. W., 2124, 2208, 2219, 2239, 2343, 2464, 2483, 2500, 2510, 2528, 2570, 2579, 2590, 2597, 2802, 2803, 2804, 2877, 2888, 2701, 2702, 2729, 2760, 3405, 3419, 3468, 3602, 3604, 3761, 3859, 3874, 4202, 4219, 4249, 4346, 4422, 4476, 4651, 5095, 5423, 5437, 5443, 5553, 5566.

Carl, J. M., 5072, 5264, 5413.

Carleton, R. B., 1015.

Carlson, D. J., 4840.

Carlson, H. F., 2512, 2775.

Carlton, G. M., 2149.

Carothers, C. O., 3377.

Carpenter, C. D., 5643.

Carpenter, F. E., 5312, 5569.

Carpenter, H. E., 4995.

Carpenter, R. A., 2313, 2420, 4020, 5155.

Carroll, R. E., 5669.

Carson, R. H., 3448, 5253, 5627.

Carter, J. L., 2179.

Carter, W. W., 2495, 2546, 5687.

Castellan, G. W., 5129, 5596, 5597.

Cavanagh, M. B., 4528, 4679, 5158, 5432, 5682.

Cazenavette, L. L., 2871, 3677, 3776.

Chadwick, W. E., 2751, 2795.

Chaillet, R. F., 5132.

Chait, H. N., 3416, 3985, 3989, 5172, 5297.

Chambers, T. H., 2187, 2252, 2392, 2418, 2456, 2507, 2508, 2559, 3065, 3138, 3246, 3426, 3470, 3848, 3925, 4738, 4892, 5357.

Chambers, W. A., 2033.

Chapin, E. J., 3134, 4447, 4467, 4478, 4638, 5034.

Chappelle, T. W., 2819.

Chase, D. G., 4457.

Chase, D. M., 4719.

Chauvette, L. M., 4565, 5003.

Cheek, C. H., 5448.

Cheney, M. G., 2346, 2575, 2647.

Chernikoff, R., 3887, 4913, 5186, 5262, 5424, 5428, 5548.

Chertock, G., 3276.

Chiantella, A. J., 4422, 5565

Childers, H. M., 4394, 4459, 4575, 5122.

Chitty, H. W., 3291, 3754, 4045, 4577.

Chrisman, C. H., 3793, 5366.

Christenson, A. L., 1801, 1828, 1843, 1909, 2092, 2340.

Christenson, C. W., 1664, 1671, 1707, 1746, 1796, 1878.

Christian, J. G., 5095.

Christie, W. A., 1515.

Christman, D. B., 4040, 4905.

Chubb, T. A., 4814.

Ciaffardini, A. N., 3195, 3332.

Ciborski, J. M., 2800.

Claassen, H. H., 3567.

Clark, A. B. J., 2068, 2085, 2851, 3727, 4779, 5271.

Clark, C. B., 4964.

Clark, H. C., 1906.

Clark, H. L., 2764, 2894, 2895, 2936, 2954, 3333, 3386, 3415, 3522, 3529, 3569, 3606, 3783, 3803, 3938, 4267, 4805, 4909, 4911, 5395, 5669.

Clark, J. B., 3636.

Clark, J. F., 4548, 4691.

Clark, J. F., III, 1917.

Clark, J. W., 2364.

Clark, K. F., 3171.

Clark, K. L., 2123, 2147, 2301, 2482.

Clark, L. P., 3229.

Clark, P. B., 2903.

Clark, W. L., 2185, 2518, 2611, 2626, 2628, 2653, 3114.

Clausen, N. C., 2682.

Clausen, N. M., 2579, 2734, 2760.

Clayton, J. O., 1234, 1277, 1278, 1292.

Cleeton, C. E., 2115, 2972, 3131, 3433, 3542, 3543, 5419, 5575

Clement, J. R., 2309, 4542.

Clements, E. W., 4817, 5681

Clements, L. E., 2713.

Clinton, W. C., 3709, 4167, 4389.

Close, R. T., 5499.

Cluthe, F. S., 2521, 2785, 2787.

Coates, R. J., 3223, 3673, 4898, 5114, 5203.

Coe, J. M., 1273, 1318, 1328, 1331, 1356, 1421, 1458, 1508.

Coggins, P. B., 2819.

Cohen, G., 4066, 4239.

Cole, P. T., 4571.

Coleman, H. P., 4088, 4194, 4843, 4888, 5019.

Coli, G. J., 1999A, 2026.

Collup, D. O., 1863, 2713, 3469, 3624.

Colton, R. A., 2399, 2600.

Conklin, J. E., 4105.

Conlon, J. J., 3259, 3692, 4381.

Conlon, J. R., 4951.

Conner, J. C., 1867, 1933, 1971, 2364, 2579, 2682, 2734, 2760.

Connor, J. A., 2134, 2203, 2215, 3471, 3664, 3688, 3689, 3860, 4230.

Conrad, R. W., 2937, 3186, 3328, 3852, 3922, 4151.

Author Index

- Cook, D. C., 3113, 3944.
- Cook, D. L., 1500, 1550.
- Cook, E. O., 5547.
- Coomes, J. R., 1082, 1106, 1118, 1168, 1171, 1174, 1198, 1203, 1215, 1226, 1237, 1242, 1265, 1283, 1335, 1348, 1358, 1359, 1363, 1385, 1396, 1398, 1399, 1402, 1403, 1405, 1408, 1411, 1453, 1454, 1455, 1463, 1465, 1469, 1470, 1472, 1484, 1485, 1488, 1535, 1545, 1557, 1572, 1579, 1583, 1587, 1607, 1631, 1639, 1790, 1852.
- Coonan, T. J., 5219.
- Cooper, D. M., 2059.
- Cooper, H. W., 5594.
- Coor, T., 2430, 2846.
- Corbett, H. H., 5447.
- Corum, C. E., 3188, 3318, 3573, 3699, 5221.
- Cosby, L. A., 4262, 4676, 5157.
- Cosden, T. H., 4570, 4669, 5143, 5567, 5648, 5676.
- Cottingham, R. L., 4539, 4686, 5053.
- Council, J. C., 2794.
- Coven, A. W., 3099, 3269, 4135.
- Cowen, R. H., 1601.
- Cowling, J. E., 3012, 3163, 3685, 5027, 5245, 5257, 5384, 5503.
- Crafton, P. A., 5344, 5578.
- Craig, A. E., 3024, 4520.
- Craig, J. H., 2259.
- Craig, P. N., 2573, 2596.
- Crane, R. R., 2652, 2939, 3227.
- Crececius, S. B., 2053, 2141, 2274, 2286, 2439, 2583, 2763, 2928, 2946, 4257, 4663, 4674, 4803, 5022, 5070.
- Crede, C. E., 2927.
- Crellin, J. W., 3604, 3781, 3859, 4202, 4346, 4476.
- Creveling, C. J., 4631, 5433.
- Crockford, H. D., 1005, 1113, 1195, 1243, 1332, 1410.
- Crofford, W. N., 4430, 5022, 5572.
- Cubbage, H. D., 2889, 3150, 3288, 4649, 5075, 5586.
- Culver, H. E., 4301.
- Cuming, W. R., 4843.
- Cummings, R. G., 4848, 4871, 4934, 4959, 5324.
- Cunningham, C. B., 2146, 2157, 2294, 2529, 2933, 2961, 3077, 3171, 3332, 3404, 3454, 3695, 4440, 4758.
- Curcio, J. A., 3097, 3319, 3327, 3376, 4322, 4337, 4378, 4386, 4434, 4556, 4573, 4583, 4601, 4669, 4709, 4818, 5143, 5362, 5368, 5567, 5648, 5676.
- Curley, S. R., 5187.
- Curry, M. J., 2297, 2682, 2690.
- Curry, T. R., 5297.
- Curtis, K., 2161.
- Curtis, W. F., 1413.
- Curtiss, C. T., 3121.
- Cushing, R. E., 4123.
- Custer, T. G., 2297, 2406.
- Cybulski, J., 4414, 4474, 4482, 5509, 5599.

D

- Daaach, L. W., 3033, 3526, 3657, 4248, 4302, 4903, 4945.
- Dahl, W. D., 4744, 5074, 5229, 5266, 5382, 5402, 5622, 5659, 5665.
- Daily, L. E., 1898, 1899, 1953, 2208, 2219, 2239, 2343, 2364.
- Danek, G. J., 5138, 5661, 5666.
- Daly, P. J., 3747, 4909.
- Darby, J. L., 1264, 1657.
- Daugherty, M. J., 5136.
- Daush, A. A., 2830.
- Davenport, H., 3045.
- Davenport, J., 2258, 2352, 2353.
- Davey, J. E., 4918.
- Davidson, D. L., 4340.
- Davis, C. B., 1421, 1599, 1634, 1666, 1700, 1724, 1750, 1758, 1836, 1845, 1866, 1907, 1921, 1960, 2336.
- Davis, H. R., 3590, 3694.
- Davis, L. E., 4579.
- Davis, M. F., 1730, 1738, 1761, 2985.
- Davis, M. S., 2477.
- Davis, N. L., 2832, 3568, 4924.
- Davis, R. E., 2424, 2664, 2811.
- Davis, T. McL., 1307, 1347A, 1378, 1672, 1673, 1676, 1685, 1694, 1937, 2064, 2073, 2088, 2089, 2093, 2094, 2115, 2116, 2144, 2160, 2171, 2224, 2225.
- Davissou, C. M., 5408.
- Davissou, J. W., 3880.
- Dawson, L. H., 1000, 1287, 1338, 1416, 1531, 2278, 3018, 3076, 3143, 3591, 3740, 3774, 4035, 4192, 4655, 4855, 5530.
- Deacle, R. E., 5279.
- Dean, R. N., 2886, 3159.
- DeAntonio, R. B., 2087.
- Debel, C. A., 2361.
- Decker, K. M., 5194, 5385, 5633.
- deLaunay, J., 3441, 4083.
- Del Grosso, V. A., 4002, 4191, 4279, 4439, 4967.
- Demmerle, A. M., 5433.
- De Novens, M., 5066.
- Dent, E., 5252.
- dePackh, D. C., 4608.
- DePue, L. A., 4638.
- Deutsch, R., 2048.
- Dewey, D. L., 4051.
- Dick, A. F., 4325, 4749, 4750, 5119.
- DiMasi, A. T., 2622.
- DiMeglio, A. F., 4897, 5213, 5336, 5358.
- Dinger, H. E., 1916, 1945, 2221, 3210, 3908, 3921, 3958, 4023, 4103, 4449, 4451, 4795, 4825, 4908.
- Dinger, J. E., 1792, 1837, 1923, 2057, 2256, 2282, 2708, 3370, 3731, 4008, 5235, 5551.
- Dingley, E. N., 1028, 1034, 1035, 1037.
- Dinkins, W. E., 1840.
- Dinnick, G. M., 3944, 4160; 4336, 4366, 4798.
- Dinsmore, H. L., 2270, 2419, 2861.
- Dirksee, T. P., 2129, 2244, 2431, 2503, 2580, 2711.
- Distad, M. F., 2048, 2102, 3675.
- Dixon, T. O., 4028, 4136, 4444, 4529.
- Dobbie, C. B., 3367, 4354, 4431, 4977, 5192, 5489.
- Dobler, L. R., 2349, 2350, 2791.

Naval Research Laboratory

Dodge, C. H., 3103, 3108, 3144, 3188, 3280, 3813, 3816, 4357.

Dodson, R. C., 5497.

Dohne, C. F., 4453.

Dolecek, R. L., 5081.

Dolk, R. W., 5593.

Domenicali, C., 2448.

Donaldson, A. R., 1420, 1561, 1587A, 1609, 1660, 1697, 1757, 1768, 1769, 1912, 1967, 1988, 2050, 2163.

Donley, J. L., 5099.

Donnellan, J. R., 5283, 5499.

Dougherty, J. P., 4593.

Douglas, W. A., 2411.

Dowd, J. F., 4954, 5366.

Downes, K. W., 4729.

Downey, F. X., 5522.

Draeger, R. H., 3077.

Dresser, O. C., 1002, 1007, 1010, 1013, 1040, 1051, 1069, 1087, 1094, 1116, 1307, 1328, 1356, 1421, 1567, 1634.

Dreyer, H. S., 4798, 4824.

Drummett, L. F., 3484, 3607, 3625, 4116, 4331, 4354, 4379, 4481, 4573, 4583, 4669, 4818, 5642, 5676.

Dryer, H. S., 3385.

Duey, J. W., 5424, 5428.

Duffey, D., 4938.

Dunbar, A. S., 3184, 3193, 3224, 3312, 3321.

Duncan, C. H., 4356, 4573, 4917, 5294, 5524.

Dunkelman, L., 4031, 4647, 5258.

Dunlap, F. H., 1529A, 1611, 1625, 1643, 1645, 1647, 1651, 1668, 1674, 1678, 1681, 1682, 1704, 1713, 1715, 1716, 1725, 1742, 1743, 1773, 1775, 1777, 1782, 1787, 1790, 1795, 1810, 1813, 1832, 1847, 1856, 1880, 1889, 1901, 1905, 1912, 1963, 1982.

Dunn, J. H., 3185.

Dunn, W. D., 2329, 2625.

Dunning, K. L., 3726, 3972.

Dunphy, R. P., 3040, 3563, 3792.

DuPre, E. F., 5530.

Durand, E., 3030, 3120, 3671, 3875.

Durbin, K. A., 5368.

Dye, W. T., 3044.

E

Easton, R. L., 2857, 3432, 3581, 4393, 4454, 4598, 5035.

Eaton, J. E., 4110.

Ebel, A. A., (ONR), 4486.

Eddy, L. B., 3912.

Edelson, S., 5203.

Edinburgh, J. A., 2468.

Edinger, K. W., 5628.

Edwards, W. J. E., 3498.

Egbert, P. T., 2684.

Eggert, I. J., 2663, 3685.

Egli, P. H., 3187, 4591, 4595.

Eilbert, R. L., 4958, 4999, 5406.

Elder, F. K., 2859.

Elliott, J. O., 4640, 4666, 5336, 5358.

Elliott, M. A., 1805, 1853, 1891, 1966, 2037, 2062, 2250, 2292, 2617, 3000, 3449.

Ellis, R. E., 2259, 3087, 3470, 3885, 3943, 4106, 4288, 4383.

Ellis, W. N., 4593 Supp.

Ellison, A. H., 4362, 4684, 5256.

Ellison, J. V., 5594.

Emerson, W. H., 3911, 4193, 4458, 4782, 4992, 5304.

Emery, W. L., 3427.

Emmett, R. A., 2857.

Englund, K. L., 2653.

Epperson, R. D., 2265, 2318.

Ericson, R. S., 2182.

Ertman, R. J., 4335, 4406, 4520.

Erwin, W. W., 4565.

Escher, W. J. D., 5185.

Estes, C. L., 2552, 3239.

Estes, D. V., 3319, 3376, 3523.

Estep, E. S., 2278, 3076.

Ewing, C. T., 2487, 2931, 3010, 3057, 3105, 3152, 3201, 3243, 3287, 3330, 3383, 3835, 4506, 4990, 5144, 5225, 5452, 5568, 5675.

F

Fagg, L. W., 4746.

Fales, D., 3279.

Faneuff, C. E., 5200.

Faraday, B. J., 3316, 3589, 3857, 4872, 4916, 5001.

Farr, H. O., 1299, 1321.

Farrar, R. T., 4188.

Farrington, J. A., 2527.

Faurote, P. D., 4429, 4859.

Faust, W. R., 2190, 2429, 2673, 2749, 2925, 3265, 3325, 3336, 3461, 3613, 3671, 4145, 4146, 4165, 4197, 4198, 4252, 4275, 4277, 4330, 4345, 4412, 4484, 4581, 4666, 4697, 5052, 5131, 5371, 5391, 5590.

Feher, L. H. A., 3695.

Fellers, R. G., 3089, 3640, 3726, 4343, 4662, 4704.

Ferguson, E. E., 5008.

Ferguson, F. H., 4353, 4461.

Ferguson, W. J., 2796, 3730, 5407.

Ferris, A. G., 4958, 5577.

Ferris, R. H., 4629, 5599.

Ferris, W. R., 3418, 3782, 3960, 4051, 4503, 4881.

Fetsch, J. T., 1122, 1154, 1157, 1165, 1179, 1461.

Fiddler, C., 3265.

Field, D. E., 4242, 4647, 4948, 5190.

Fielding, G. H., 2914, 3590, 3694, 5361, 5421.

Fifer, W. H., 1241.

Finholt, A. E., 3107, 3147.

Fischman, M., 4009, 4099, 4981.

Fisk, B., 2911, 3015, 3102, 3178, 3512, 3884, 4007.

Fittfield, J. E., 2993.

Fitzgerald, J. W., 2477.

Fitzsimmons, R. L. M., 3672.

FitzSimmons, V. G., 1954, 2174, 2320, 2481, 2530, 3545, 4010, 4175, 4278, 4618, 4753.

Flarity, W. H., 3305.

Flath, E. H., 2648, 2707, 2949, 3436, 3788, 3804, 3826, 3893, 4061.

Flato, M., 5628.

Fleming, J. J., 1948, 1996, 2137.

Flowers, H. L., 3135.

Fluegel, D. A., 3511.

Author Index

Fluharty, C. D., 4364.
 Fluhr, F. R., 5248, 5254, 5281, 5417, 5645, 5665.
 Fobes, H. F., 2227, 2273, 2541.
 Fogelberg, J. M., 2062, 2230, 2373.
 Foin, O. F., 3116.
 Folen, V. J., 4782.
 Foley, J. D., 1764, 1772, 1836.
 Foley, W. V., 2955.
 Ford, T. F., 5662.
 Fore, D., 1346, 1354, 1390, 1481, 1527, 1563, 1578, 1622, 1624, 1699, 1719, 1741, 1784.
 Forgeson, B. W., 4557, 4929, 5002, 5153, 5370, 5517, 5673.
 Forkois, H. M., 3200, 3495, 4151, 4789.
 Fortna, J. D. E., 5537.
 Foster, L. M., 1999.
 Foster, R. W., 5185.
 Fougere, P. F., 4439.
 Fowler, G. H., 5234.
 Fox, H. W., 2055, 2300, 2463, 2674, 3141, 3489, 3651, 3703, 3704, 3705, 3793, 3845, 4238, 4569, 4714.
 Fox, R. B., 3180, 3323, 3633, 4806, 4948, 5190, 5242, 5335, 5360, 5365, 5393, 5518, 5591.
 Fox, R. L., 2357, 2397, 2753, 2821.
 Frame, J. M., 4897, 5185, 5336.
 Francis, C., 5343.
 Franck, G. H., 3816.
 Franta, A. L., 1922, 3911, 4505, 4999, 5197, 5415.
 Frazer, W. A., 4711.
 Frazier, J. T., 4956.
 Fratianni, S. V., 2872, 3281, 3464, 3605, 3654.
 Fraumann, J. W., 2356, 2424.
 Freeman, J. J., 4694.
 French, J. M., 2060, 2101, 2746.
 Frerika, R. D., 2287, 2369, 2835, 3012.
 Friebus, R. T., 1771, 1779, 1781, 1786, 1791, 1811, 1812, 1814, 1817.

Friedland, M. S., 3291.
 Friedman, D., 4048, 4609, 4610, 5169.
 Friedman, H., 1667, 1712, 1799, 1800, 1801, 1886, 2012, 2027, 2028, 2069, 2214, 2218, 2235, 2246, 2303, 2758, 2858, 2951, 3081, 3140, 3189, 3378, 3514, 3536, 3626, 3683, 3942, 4069, 4509, 4760, 5087.
 Friend, R. A., 2630, 2981.
 Friske, W. H., 4447, 4467, 4478.
 Frissel, H. F., 3377.
 Fritz, K. E., 2149, 2258, 2325, 2352, 2353, 2379, 2983.
 Fry, W. F., 2113, 2956, 3139, 3171.
 Fryer, T. B., 3315.
 Fujii, C. T., 5506.
 Fuller, I. W., 2609, 2694, 2809, 2837, 2867, 2920, 2957, 2997, 5651, 5653, 5654.
 Fulper, R., 4311, 4641.
 Furlong, L. R., 3143, 3256, 3717.
 Furlow, W. M., 2980, 3432, 3493.
 Fussell, W. B., 4416, 4590, 4613, 4614, 4615, 4616, 4708.
 Fye, D. L., 2605, 2896, 3690, 4243, 4244.

G

Gabriel, W. F., 4204, 4842, 5019, 5195, 5295.
 Gaffney, J., 4542.
 Gaffney, M. P., 2382.
 Gager, F. M., 3082, 3108, 3197, 3209, 3261, 3339, 3505, 4874, 5016, 5585.
 Gailar, N. M., 4189.
 Gale, D. I., 3944, 4306, 4486, 4740, 5045.
 Gall, J. E., 2429, 3435.
 Gallagher, V. C., 2819.
 Gallant, A., 2896.
 Gantz, G. M., 1719, 1741, 1784, 1831, 2000, 2055, 2124, 2297, 2300, 2322, 2343, 2406, 2463, 2521, 2655, 2674, 2682, 2683, 2690, 2695, 2729.
 Garcia, L. F., 5336.
 Gardner, R. E., 5264, 5656.
 Gardner, W. K., 3488.
 Gareau, R., 2780, 2864, 3062, 3365.
 Garner, W. E., 3921, 3958, 4449, 4451, 4795, 4908.

Garofalo, N. R., 4790, 4988, 5162, 5510.
 Garrett, W. D., 4068, 4516, 4816, 4997, 5030, 5685.
 Garstens, M. A., 3030, 5400.
 Garvey, W. D., 4511, 4707, 4721, 5013, 5015, 5094, 5204, 5205, 5269.
 Gaylord, R. E., 3075, 3108, 3816.
 Geiger, F. E., 4648, 5523
 Geoppinger, A. L., 2152, 2358, 2748.
 George, L. L., 2519, 2581, 2866, 2941, 3168.
 George, S. F., 2692, 2707, 2873, 3182, 3571, 3682, 3837, 3844, 4332, 4878, 5683, 5684.
 George, T. W., 3507, 3636, 3670, 3730, 4873.
 Gerlach, C. H., 3151.
 Gershenow, H. J., 2788.
 Gerwin, H. L., 2651, 3042, 3221, 3759, 3929, 3980.
 Gezelius, R. A., 1016, 1026, 1047, 1075, 1108, 1182, 1229, 1264, 1301, 1319, 1329, 1352, 1376, 1420, 1423, 1424.
 Gibson, G. B., 3861.
 Gibson, J. E., 2435, 2552, 4124, 4664, 4966, 4984, 5114.
 Gilbert, A. R., 2820.
 Gilchrist, L. F., 3813, 3920, 3926, 3934, 4720, 4785, 4949.
 Giles, R. C., 3361, 4051.
 Gilleo, M. A., 3019.
 Gillette, W., 3609.
 Ginther, R. J., 3429, 4062, 5326.
 Giorgi, A. L., 3798.
 Gipe, R. L., 4138, 4933, 5329.
 Glaser, H., 4572, 5476.
 Glass, E., 3267.
 Glasser, R. G., 4953, 5667.
 Gleason, D. H., 2806.
 Gleason, R. F., 2900.
 Glorioso, A. R., 4245.
 Glover, J. W., 1974.
 Goble, B. D., 5628.
 Godbey, J. J., 2643.
 Goins, A. E., 5600.

Naval Research Laboratory

- Goldberg, B., 3381, 3828.
 Golden, T. S., 4466, 4958.
 Goldman, D. E., 3077.
 Goldstein, E., 3462, 3710, 4082, 4101.
 Goldstein, M. K., 1564, 1606, 1890, 1896, 1938, 2079, 2143, 2229, 2367, 2469.
 Golian, S. E., 3171, 4308, 4495, 5336.
 Goode, R. J., 5550, 5581, 5620, 5643.
 Goodyear, J. H., 2159, 2325.
 Googe, W. D., 5302.
 Gordon, G. S., 2342, 2389, 2592.
 Gordon, H., 2519, 2581, 3168, 3702.
 Gordon, R. A., 1025, 1115, 1187, 1475, 1487, 1502, 1575, 1613, 1628, 1629, 1687, 1710, 1726, 1739, 1753, 1798, 1855, 1864, 1894, 1906, 1917.
 Gorsuch, P. D., 2150, 2641.
 Gossett, J. D., 4450, 4535.
 Gough, J. H., 1027, 1042, 1063, 1098, 1134, 1140, 1141, 1155, 1162, 1178, 1202, 1247, 1268, 1347, 1581, 1617, 1626.
 Goulart, H. S., 5326.
 Grady, D. F., 5229, 5266, 5397, 5665.
 Graham, B. W., 2460.
 Graham, W. J., 4808, 5317.
 Gran, R. M., 3620, 3738.
 Grand, J. A., 1904, 2086, 3330, 3383, 3756, 3835, 4506, 4634, 5014, 5332, 5531.
 Granger, H., 1471, 1520, 1559, 1659.
 Grant, C. R., 3629, 3782, 3864, 3960, 4503, 4787, 4923, 5447.
 Grant, G., 4561.
 Grantham, J. O., 2282, 2708.
 Graves, J. D., 4394, 4459, 4566, 4575.
 Grebenkemper, C. J., 5151.
 Green, B. I., 2829.
 Green, J. W., 2469.
 Greenleaf, S. A., 1001, 1009, 1011, 1024, 1038, 1053, 1058, 1062, 1083, 1093, 1102, 1139, 1140, 1155, 1178, 1200, 1225, 1250, 1268, 1307, 1366, 1383, 1386, 1459, 1489, 1509, 1521, 1630.
 Greenough, M. L., 3171.
 Gregan, D. J. G., 4872, 4916, 5001.
 Greig, J. H., 2644.
 Gridley, D. H., 3340, 3658, 3714, 3802, 3916, 4049, 4551.
 Griem, H. R., 5455.
 Grier, B. J. W., 3276.
 Griffin, F. T., 4664, 4889.
 Griffith, J. R., 5384, 5580.
 Griffith, M. A., 4339.
 Grimm, H. H., 3166, 3261, 3309, 4243.
 Grogan, C. H., 1790A, 1809, 1823, 1833, 1841, 1879, 1910, 2117, 2176.
 Grosvenor, A. C., 2045, 2461.
 Gruber, J. R., 2648, 3115, 3666, 4526.
 Guarino, P. A., 2268, 2327, 2356, 2370, 2380, 2383, 2386, 2388, 2415, 2424, 2664, 3366.
 Guenther, E., 4325, 4535.
 Guethlen, V. J., 3101, 3241.
 Gulnard, N. W., 4871, 4934, 4959, 5187.
 Gulbrandsen, S., 1931.
 Gullledge, I. S., 5094, 5276, 5614.
 Gunn, R., 1060, 1232, 1308, 1683, 1919, 2025, 2243, 2271, 2281, 2298.
 Gustafson, P., 5560.
 Guthrie, R. C., 1091, 1172, 1209, 1213, 1217, 2048, 2171, 2225, 2260, 2312, 2323, 2324, 2400, 2437, 3831.

H

 Haas, G. A., 4508, 4780, 4856, 4978, 5275, 5657.
 Habib, E. J., 5227.
 Haddock, F. T., 3045, 4712.
 Haeff, A. V., 3306.
 Haffcke, P. M., 1201.
 Hafner, A., 5647.
 Hafner, R. H., 1667, 1711, 1712, 1763, 1822, 1828, 2020, 2087.
 Hagen, J. P., 1728, 2064, 2073, 2088, 2089, 2093, 2094, 2116, 2144, 2160, 2224, 2312, 2323, 2324, 2400, 2437, 3504, 4124, 4448, 5114.
 Hain, G. M., 2273, 2741, 2813, 2817.
 Haisfield, R. M., 5230.
 Hall, D. A., 5271.
 Hall, G. L., 5652.
 Hall, J. M., 4634, 5531.
 Hall, W. C., 1426, 1706, 1759, 1760, 1762, 1806, 1919, 2025, 2280, 3900, 3901, 3902, 3903, 3906, 3927.
 Hallberg, F. C., 4665, 5433.
 Hamer, W. J., 1071.
 Hammersmith, J. L., 5086, 5512.
 Hammes, A. D., 2281, 2486.
 Hancock, J. H., 5502.
 Hanish, S., 5259, 5267, 5405, 5436, 5513, 5514, 5515, 5538, 5691.
 Hankins, T. L., 2629.
 Hanks, H. C., 2955.
 Hanley, T. E., 2614, 3157, 5317.
 Hann, M. P., 5066.
 Hannan, P. J., 5354, 5689.
 Hanninen, U. E., 3180, 3526, 3987.
 Hanrahan, D. J., 4912, 4931, 5090, 5090 App. E.
 Hanscome, T. D., 2289, 2351, 4324, 4403, 4746.
 Hansen, D. F., 3555, 4021, 4382, 5011, 5294, 5312, 5444, 5489, 5524, 5535, 5569, 5682.
 Hansen, G., 5199.
 Hardesty, G. K. C., 1441, 1450, 1477, 1492, 1494, 1497, 1523, 1528, 1529, 1533, 1539, 1558, 1579, 1583, 1584, 1587, 1587A, 1607, 1631, 1654, 1660, 1697, 1735, 1757, 1767, 1768, 1769, 2789, 3061.
 Hardgrove, B. E., 4632.
 Hardy, R. G., 2374, 2397, 2658.
 Hare, E. F., 4569, 4734.
 Harkin, D., 3196.
 Harmon, E. F., 3176.
 Harned, H. S., 1071.
 Harrell, B. F., 3113, 3479.
 Harrington, F. D., 5294, 5446, 5524, 5533, 5535, 5576.
 Harris, E. D., 4921.
 Harris, E. G., 4495, 4697, 4807, 4858, 4944, 5131.
 Harris, F., 3115.
 Harris, F. H., 4804, 5168.

Author Index

- Harris, F. T., 3727.
- Harris, L. A., 4308.
- Harris, W. E., 3014.
- Harris, W. J., 3456, 3684, 3732, 3849.
- Harrison, E., 3124.
- Hart, J. E., 3642, 3711, 4168, 4361.
- Hart, S. D., 2563, 2564, 4263, 4265.
- Hartbower, C. E., 2556, 2752, 2788, 2845, 3343, 3552, 3790.
- Harth, E. M., 4090.
- Hartman, R. S., 2665, 3057, 3105, 3152.
- Hartz, F. J., 5073.
- Harvey, G. L., 3069, 3137.
- Haskins, R. L., 2873, 3156.
- Hastings, A. E., 1915, 2554, 2561, 3074, 3129, 3221, 3268, 3334, 3424, 3450, 3466, 3487, 3679, 3759, 3929.
- Hastings, H. F., 1045, 1076, 1103, 1138, 1161, 1288, 1310, 1387, 1881, 1939, 1940, 1941, 1949, 3540, 3631, 4162, 4639.
- Haswell, W. T., 2328, 2393, 2454, 2560, 2634.
- Hausmeister, P., 1188.
- Hauver, C. C., 2975.
- Havens, R. J., 3030, 3120, 3171.
- Hawley, W. H., 5438.
- Hawthorne, J. R., 5278, 5305, 5479, 5483, 5582, 5629.
- Hay, D. L., 1173, 1327.
- Hayes, H. C., 1078, 1081, 1084, 1260, 1404, 1514, 1765, 1776, 1908, 1959, 2097, 2501.
- Hayes, J. N., 5199, 5404.
- Hayes, J. R., 5418.
- Hayes, K. J., 1867, 2571, 2777.
- Haynsworth, J. D., 2996, 3295.
- Hayward, R. W., 2186, 2194, 2511.
- Hazlett, R. N., 4086, 4391, 5117, 5526, 5546.
- Headrick, J. M., 3082, 3428, 3886, 4611, 4835, 4866, 4867.
- Hedrich, A. L., 2803.
- Heeren, V. L., 2955, 3013.
- Heinen, J. H., 2528, 2570, 2579, 2590, 2597, 2602, 2603, 2604, 2655, 2682, 2688, 2701, 2702, 2729, 2734, 2760.
- Heinmiller, D. R., 3551, 4149.
- Helwig, G. A., 2193, 2473.
- Hemenway, D. F., 4466.
- Henderson, C. M., 4239, 4493.
- Hendrickson, A. H., 3997, 4285, 4585.
- Hennessey, F. L., 4071, 5493.
- Hennessey, R. G., 2678, 2743.
- Henson, J. B., 4703, 5094, 5204.
- Hervis, S. C., 2548.
- Hepler, D. S., 4390, 4688, 5217.
- Heritage, D. P., 2635, 2740.
- Herman, E. E., 2811, 3528, 3896.
- Herman, H. W., 2892, 3223, 3883.
- Hermann, G. W., 4892, 4958, 5406.
- Herrick, R. H., 1093, 1102.
- Herring, R. A., 2213, 2484, 2586, 4505, 4840.
- Herring, T. H., 2471.
- Hesse, A. H., 1650, 1835, 2003, 2013, 2131.
- Heusinkveld, M., 2512, 2715, 2727, 2733, 2775, 2827.
- Hibbs, H. H., 3842, 4141.
- Hicks, G. T., 4035, 4192, 5064, 5557, 5614.
- Hicks, R. J., 5550, 5620.
- Hieatt, J. L., 5216.
- Higdon, R. V., 2435.
- Higgs, R. W., 4937.
- Hightower, R. E., 3181.
- Hill, B. C., 3158.
- Hiller, A. J., 5628.
- Hindall, L. D., 2525.
- Hintz, N. M., 2792.
- Hoare, J. P., 5129, 5171, 5333.
- Hobart, T. D., 1836, 1907, 1960.
- Hobbis, C. E. W., 4280.
- Hocking, W. M., 5198.
- Hodges, A. J., 2085, 2376, 2863.
- Hodges, M. F., 1758, 1921, 1976, 2038, 2254, 2265, 2318, 2938, 3772, 3999.
- Hodgson, W. C., 3078, 3920, 3926, 3934, 4063, 4720, 4785, 5343.
- Hoehne, W. E., 4682.
- Hoepfner, C. H., 2421, 2427, 2955, 3013.
- Hoffer, E. S., 3362, 3406.
- Hoffman, L., 4690, 4765.
- Hoffman, P. A., 2347.
- Holcomb, F. M., 1879, 1893, 2105, 2151, 2164.
- Holland, F. H., 2598.
- Holland, J. G., 4703.
- Hollings, H. A. J., 5028.
- Holloway, G. E., 3461, 3897.
- Hollweck, F. J., 2685, 2844, 3235, 5100, 5573.
- Hollywood, J. M., 2843.
- Holm, W. R., 1989, 2024, 2180, 2248, 2506, 2534.
- Holmes, J. C., 4184, 4463, 4574, 4619, 4901.
- Holmgren, H. D., 5558.
- Holt, S. G., 2362, 2497, 2645, 2684.
- Honig, J. G., 4133, 4177, 4772.
- Hoover, J. I., 2982, 3385, 3461, 3897, 4453, 4824.
- Hoover, M. V., 2285, 2781.
- Hopkinson, T. W., 2194, 2316.
- Hoppmann, W. H., 3106, 3377.
- Hornbeck, G. A., 2796.
- Hornberg, K. O., 2536, 2742, 2998, 3149.
- Horowitz, R., 4246.
- Horton, B. M., 3211, 3408, 3927.
- House, C. B., 4172, 4541, 4754, 5071.
- Householder, A. S., 2888.
- Houston, R. H., 4768.
- Hovey, J. M., 5433.
- Howard, A. L., 2330, 2407, 4722.
- Howard, D. D., 3931, 4602, 4781, 4793, 4796, 4830, 4837, 5049, 5230, 5430, 5470, 5559.
- Howe, C. M., 5468.
- Howe, W. E. W., 2798, 2825, 2929, 2960, 3232, 3233, 3460.
- Howells, N. C., 4713, 4725, 4857, 4925, 5140, 5285, 5464.

Naval Research Laboratory

Howland, B., 3030, 3171.
 Huffman, L. C., 3354, 3411.
 Huggin, F. E., 3096, 3247, 4354.
 Hughes, R. Z., 5132.
 Hulburt, E. O., 1003, 1004, 1017, 1022, 1036, 1097, 1163, 1196, 1219, 1230, 1259, 1302, 1324, 1339, 1350, 1362, 1367, 1372, 1409, 1432, 1467, 1496, 1519, 1585, 1598, 1623, 1848, 1887, 2035, 2067, 2175, 2210, 2231, 2278, 2303, 2348, 2403, 2422, 2494, 2627, 2680, 2975, 3257, 3263, 4600, 4870, 5258.
 Hull, M. I., 1951, 1983, 2029, 2049.
 Hummer, C. W., 5673.
 Humphrey, J. B., 4768, 5160.
 Huntley, K. L., 1710, 2854, 3164, 3551, 3806.
 Hurd, E. L., 1960, 2358.
 Hurdie, B. G., 2477, 4028, 4629.
 Hurlburt, E. H., 3054.
 Huskey, J. E., 2676, 2763, 2922, 2928, 2946, 3011.
 Husson, R. L., 3567.

I

Ide, J. M., 1803, 1882, 1900, 1924, 2032, 2113.
 Ikerd, H. M., 2904, 2912, 2916, 2917, 2921, 2934, 2945, 2950.
 Irwin, G. R., 1429, 1438, 1440, 1534, 1540, 1591, 1600, 1745, 1778, 1980, 2068, 2568, 2851, 2863, 3507, 4763, 4956, 5120, 5222, 5486.
 Isaacs, L., 5518.
 Isakson, G., 3229.
 Iseley, C. W., 5413.
 Isely, F. C., 1696, 1717, 1808, 1819, 1839, 1862, 1943, 2479, 2984, 2985, 4217, 4347.
 Iskowitz, F., 2851.

J

Jablonski, E. J., 4138, 4558, 4603, 4986, 5139, 5309, 5492, 5598.
 Jablonski, F. E., 4668, 5213.
 Jackson, C. E., 1544, 1569, 1576, 1642, 1747, 1770, 1870, 1911, 1925, 2019, 2050, 2154, 2198, 2237, 2242, 2277.
 Jackson, J. E., 3909, 4940, 4960, 5342, 5345.
 Jackson, T. B., 2797, 3227, 3301.
 James, F. L., 5181, 5306.

Janes, H. B., 3515, 3524, 3788, 3804, 3826.
 Jank, F. W., 1967, 1968, 1991, 2001, 2002, 2010, 2082, 2135, 2222.
 Jantzen, A. C., 2263.
 Jarrell, H. A., 2963.
 Jarvis, N. L., 5244, 5364, 5401.
 Jasewicz, L., 2591.
 Jastrow, R., 4833.
 Jensen, G. K., 3185, 3339, 3527, 3580, 3653, 4070, 4111, 4134, 4630, 4976, 5016, 5201, 5224, 5238, 5247, 5338, 5399, 5441, 5508, 5511, 5540, 5564, 5570, 5584, 5585, 5589, 5604, 5634.
 Jensen, H. V., 2705.
 Jensen, J. T., 4856, 4978, 5275.
 Jerger, J. J., 3070 App. 3.
 Jesswein, A. J., 4526.
 Jewett, W. M., 4079.
 Johannessen, H. R., 1507, 1648, 1755, 1772, 1976, 2194, 2316, 2425, 3233.
 Johnson, C. T., 3151.
 Johnson, C. Y., 4432.
 Johnson, F. S., 3030, 3171, 4315.
 Johnson, G. A., 2549.
 Johnson, J. E., 1944, 2065, 2125, 2211, 2457, 2500, 2697, 2914, 3405, 3419, 3602, 3859, 4182, 4202, 4249, 4346, 4422, 4476, 4651, 5095, 5437, 5565, 5566.
 Johnson, K. W., 3377.
 Johnson, L. J., 3482, 3945.
 Johnson, L. M., 3544, 4203, 4377.
 Johnson, M. H., 2973, 3036, 3112, 3265, 3346, 3359, 3671.
 Johnson, S. F., 5043.
 Johnson, W. H., 2142, 2233, 2637, 3355, 3603, 3786, 3801, 4578, 4677, 4761, 4882.
 Jones, A. E., 3854, 3946, 4169.
 Jones, A. R., 2250, 2292, 2430.
 Jones, D. T., 2541, 2741, 3100.
 Jones, E. L., 2987, 5106, 5149, 5679.
 Jones, J. L., 3276.
 Jones, R. C., 3593, 4808, 5468.
 Jones, R. L., 3022, Vol. 2, App. D.
 Jones, W. P., 4653.

Josephson, V., 3007.
 Judson, H. H., 2714.
 Julian, B. G., 5166.

K

Kagarise, R. E., 4248, 4344, 4369, 4752, 4803, 4955, 5088, 5257, 5277, 5554, 5641.
 Kahler, F. C., 1508, 1525, 1553, 1604, 1614, 1637, 1648, 2299, 3490, 4148, 4314, 4554.
 Kahler, R. L., 2085, 3499, 4127.
 Kahn, A., 4380.
 Kaiser, H. F., 1052, 1121, 1389, 1456, 1501, 1547, 1577, 1653, 1667, 1711, 1712, 1763, 1799, 1800, 1828, 1842, 1909, 2036, 2037, 3004, 3014.
 Kaiser, J. A., 4704, 5103.
 Kales, M. L., 3451, 3686, 4027.
 Kallander, J. W., 4373, 4895.
 Kalnoskas, L. F., 4383, 4892.
 Kammer, E. W., 2331, 2372, 2377, 2496, 2497, 2562, 2645, 2815, 2838, 2976, 3104, 3207, 3276, 3363, 4263, 4264, 4266, 4865, 4968, 5481.
 Kan, G. S., 2442.
 Kane, J. A., 5345.
 Kaplan, J. I., 4648, 4777, 5356.
 Karle, J., 3021, 3068.
 Kastan, J. L., 2865.
 Kattus, J. R., 2757, 2874.
 Katzin, M., 2232, 2240, 2251, 2295, 2332, 2493, 2542, 2553, 2618, 3639, 5687.
 Kaufman, M. G., 3124, 3214, 3240, 4593, 4593 Supp., 5522.
 Kaufman, S., 3743, 3966, 4994, 5422, 5639.
 Kauke, J. R., 2551, 2584, 2955, 3013, 3030.
 Kavanaugh, E. M., 1866, 1907.
 Keene, L. F., 3592.
 Keene, P., 3866, 3942.
 Kehm, H., 3816.
 Keith, E. N., 3174, 3203.
 Kelleher, K. S., 2660, 2776, 3329, 3412, 3530, 3842, 3957, 4000, 4088, 4141, 4194, 4254.
 Keller, J. W., 3927.

Author Index

- Keller, W. N., 4143.
- Kelly, G. W., 5155.
- Kennedy, C. A., 5083.
- Kenney, J. E., 5447.
- Kenyon, S. L., 3158.
- Kern, R. A., 2908.
- Kessler, H. F., 2274, 2311.
- Kettering, J. H., 3722, 4173.
- Key, C. L., 3075, 3144, 3188, 3280, 3318, 3573.
- Kidder, H., 2576.
- Kidwell, R. E., 3936, 5137.
- Kies, J. A., 5098, 5222, 5521, 5650.
- Kikuchi, C., 4015.
- King, A. M., 3250, 3465, 3565, 3890, 4085.
- King, E. C., 3243.
- King, P., 1593, 1680, 1740, 1815, 1820, 1865, 1874, 1895, 1914, 1934, 1987, 2006, 2008, 2052, 2063, 2257, 2269, 3378, 3514, 3536, 3626, 3683, 3942, 4069, 5249.
- Kingsbury, C. H., 1745, 2068, 4127.
- Kinzer, G. D., 1591, 1892, 2263, 2276, 2290, 3199.
- Kirby, M. F., 2101.
- Kirk, D., 4342.
- Kirk, J. A., 2840.
- Kirk, R. D., 4062, 5326.
- Kirvida, L., 4352.
- Kirwan, J. P., 3758, 4120, 5469.
- Kittredge, F. A., 4799.
- Klee, C. T., 2037.
- Klee, C. W., 5416.
- Kleene, S. C., 2555.
- Klein, E., 1582.
- Klein, J. S., 2443.
- Klein, W. J. J., 2965, 3809.
- Kleinback, W. S., 2686.
- Kleitman, D., 4246.
- Klemme, D. E., 4674, 5085, 5147, 5501.
- Klick, C. C., 3878, 3930, 4571.
- Klotz, J. W., 2667, 2842, 2974.
- Kluck, J. H., 3839, 3986.
- Knauss, J. A., 4530.
- Knestrick, G. L., 4116, 4395, 4601, 4709, 4818, 5130, 5143, 5567, 5642, 5648, 5676.
- Knoll, H. A., 2627.
- Knopp, A. M., 4958, 5406.
- Knowles, W. B., 4604, 4721.
- Knudson, H. W., 2642, 3172, 3225, 3226, 3299, 3394, 3610, 3611, 3983.
- Koester, R. H., 2471.
- Kohlmann, W. H., 3160.
- Kohn, E. J., 3180, 4001, 4028, 4313, 4517, 4685.
- Koib, A. C., 5200, 5391, 5455.
- Koncen, R. E., 5292.
- Koonen, M. J., 3594, 3810, 5276.
- Koptonak, F. F., 3200.
- Koten, D. E., 4245.
- Kovacina, T. A., 5572.
- Kowalcuk, N., 2147.
- Kraakevik, J. H., 4235, 5445.
- Kramer, I. R., 1561, 1577, 1589, 1751, 1785, 1821, 1822, 2020, 2087, 2150, 2159, 2328, 2393, 2404, 2560, 2796.
- Kramer, M. J., 4624, 4751, 4989.
- Kraus, C. A., 2011.
- Krause, E. H., 1794, 2955, 3030, 3120, 3139, 3171, 3671, 3762, 3763, 3764, 3765, 3766, 3767, 3768, 3769, 3770, 3853, 3875, 3937, 3544, 3956, 3967, 3969, 3974, 3975, 3976, 3977, 3978, 3990, 4004, 4017, 4033, 4052, 4053, 4054, 4060, 4074, 4091, 4092, 4093, 4104, 4122, 4129, 4155, 4156, 4157, 4158, 4159, 4164, 4282, 4306.
- Kreplin, R. W., 3948.
- Kroger, B. G., 5064.
- Kronmiller, G. C., 5215.
- Krueger, D. A., 5509.
- Kruger, J., 4605.
- Kruee, G. K., 4119.
- Krulfeid, M., 4644, 4711, 5152.
- Krynitsky, J. A., 1641, 2223, 2540, 2914, 3405, 3419, 3468, 3604, 3761, 3874, 4068, 4219, 4496, 4516, 4536, 4816, 4997, 5030, 5553, 5685.
- Kuder, M. L., 2616, 3030.
- Kulkowaki, E. F., 2458, 5660.
- Kunz, W. E., 5462.
- Kurner, C. J., 4744, 4922, 5665.
- Kyser, R. H., 4588.

L

- Lady, E. L., 5066.
- La Gow, H. E., 2240, 2251, 2365, 3171.
- Lamb, C., 1662, 1719, 1784, 1872, 3273, 4239.
- Lambe, J. J., 4571.
- Lambert, T. A., 4521.
- Lampkin, R. J., 4580, 5092.
- Lance, H. W., 2559, 3123, 3142.
- Lander, J. J., 2178, 2675, 2908, 3262, 3549, 3962, 4075, 4078, 4347, 4475, 5106.
- Landmann, W. A., 2633.
- Lane, J. R., 4523, 4731, 4928.
- Lange, E. A., 4925, 5121, 5140, 5285, 5293, 5464.
- Langel, R. A., 5605.
- Langelan, H. C., 5635.
- Langworthy, J. B., 5489.
- Lanning, W. C., 1568, 1619, 1632, 1691, 1701, 1744, 1831, 2719.
- Lantz, I. C., 3142, 3528, 4794.
- Lantz, P. A., 2204, 2337, 2486, 2924, 3652, 4435, 4521, 4958, 5178.
- Larison, O. K., 5180.
- La Rocca, J. P., 3516, 3520, 3619.
- LaRoche, P. J., 4877, 5107, 5289.
- Larsen, P. J., 3022, Vol. 2, App. A & F.
- Larson, H. L., 4228.
- Larson, J., 3192, 3971.
- Larson, L. R., 4029.
- Larson, R., 3124.
- Laslett, L. J., 4306.

Naval Research Laboratory

- Latter, R., 2572, 2610.
- Lawler, E. D., 2893.
- Lawrence, K. D., 5164, 5265.
- Lawson, W. M., 5484, 5509.
- Layne, E. E., 4797.
- Lax, M., 3973.
- Laxar, F. H., 2050, 2163, 2306, 2325, 2352, 2353, 2453, 2845.
- Leach, P. B., 3898, 4022, 4175, 5316, 5606, 5680.
- Leak, W. M., 4441.
- Leavitt, G. E., 3210, 3921, 3958.
- Leavitt, W. E., 3517, 3540, 3662, 3696, 4108, 5274.
- Lee, J. F., 1548, 1620, 1661.
- Lee, N., 3200.
- Leef, A. E., 5415.
- Lehmann, A. S., 2106.
- Leidy, K. L., 5075, 5586.
- Leifer, J. C., 4773.
- Leiphart, J. P., 3517, 4841.
- Lemontier, C. R., 3070, App. 1.
- Lempke, C. T., 3935.
- Lengyel, B. A., 3204, 3534, 3562, 3599.
- Leonard, J. M., 2030, 2177, 2188, 2195, 2311, 2462, 2475, 2492, 2516, 2523, 2611, 2626, 2628, 2653, 3073, 3114, 3289, 3403, 3413, 3452, 3781, 3882, 4228, 4376, 4423, 4534, 4563, 4620, 4674, 5070, 5085, 5147, 5182, 5490, 5501.
- Leppert, M. L., 1652, 1665, 1727, 1764, 1766, 1866, 1976, 2007, 2152, 2473, 4113, 4490, 4641.
- Lepson, B., 5052, 5372.
- Lett, R. P., 3128, 3219.
- Levine, O., 4238, 4714, 4715, 4943, 4946.
- Levine, S. S., 3096.
- Levy, H. H., 5433.
- Lewis, B. L., 4348, 4438, 4602, 4628, 4661, 4793, 4796, 4830, 5004.
- Lewis, O. I., 1160.
- Lewie, R. B., 3825.
- Libby, J. N., 4301, 4794, 5415.
- Libby, R. L., 2801, 3459, 3572.
- Lichtman, S. W., 2955, 3013, 3171, 3477, 3635, 3948, 4013.
- Licltra, M. C., 4628, 4884.
- Lide, A. M., 4303.
- Liebson, S. H., 1700, 1724, 1761, 1789, 1807, 1826, 1827, 1834, 1839, 1840, 3079, 3189, 3723, 3927, 4188, 4617.
- Lilley, A. E., 4448, 4689, 4609.
- Lindner, H. G., 1509, 1510.
- Lindquist, C. G., 2777.
- Link, J. C., 1068, 1089, 1130, 1132, 1252, 1263, 1272, 1427, 1433, 1785, 3777.
- Linnenbom, V. J., 4798, 4824, 5448.
- Linsenmayer, G. R., 5228.
- Little, R. M., 4620.
- Little, R. P., 5671.
- Lloyd, K. B., 5034.
- Loatman, P. J., 2105, 2117, 2172, 2529.
- Lock, C., 3713.
- Locke, A. S., 3070, 3075, 3090, 3094, 3108, 3135, 3144, 3188, 3318, 3706.
- Lockhart, L. B., 2257, 2292, 2371, 2440, 2691, 2849, 3066, 3323, 3378, 3514, 3626, 3683, 3771, 3820, 3866, 3942, 4036, 4038, 4039, 4069, 4216, 4221, 4316, 4509, 4607, 4760, 4965, 5041, 5208, 5239, 5246, 5249, 5301, 5359, 5390, 5440, 5526, 5528, 5658, 5692.
- Lockhart, W. M., 1370.
- Loifgren, L. A., 3377.
- Logan, J. K., 4542.
- Long, W. G., 3998, 4041, 4072, 4094, 4233, 4396, 4641.
- Longman, E. R., 3132, 3198, 3627, 3931.
- Lonsdale, E. M., 2502, 2545.
- Looney, C. H., 4368, 4726, 4995.
- Lorenzen, H. O., 2799.
- Loring, B. M., 1708, 1785, 1861, 2013, 2131, 2357, 3414, 3434, 3871.
- Louckes, F. I., 2471, 3002.
- Loughmiller, C. M., 5056.
- Loveberg, A. G., 2099, 2672, 2873.
- Lowe, D. M., 2429.
- Lowell, A., 5569.
- Lowell, R., 3979, 4016.
- Lucas, R. T., 4042, 4044, 4064, 4293, 5265.
- Lucke, W. H., 4896, 5082.
- Lundquist, C. R., 2204, 2488, 3412.
- Lunn, E. G., 1023, 1033, 1061, 1064, 1079, 1100, 1126, 1136, 1145, 1189, 1194, 1216, 1235, 1240, 1243, 1254, 1267, 1293, 1323, 1332, 1334, 1344, 1379, 1381, 1392.
- Luoma, E. J., 2644.
- Lupton, T. C., 5550, 5581, 5620, 5643.
- Luther, G. G., 1642, 1747, 1770, 1870, 1911, 1925, 2149, 2258, 2325, 2352, 2353, 2752, 3343.
- Lutz, S. G., 2241, 2330, 3029.
- Lyle, G. A., 1140, 1141, 1178, 1197, 1247, 1271.
- Lynch, D. L., 3432.
- Lynch, D. W., 3600, 3655.

M

- McAllister, W. W., 5400.
- McClain, E. F., 2459, 2709, 3239, 3361, 3418, 3864, 4051, 4448, 4503, 4689.
- McClenon, D., 1596, 1617, 1845, 1863, 3234.
- McClinton, A. T., 2736, 2737, 2786, 2882, 3621, 3637, 3711, 3735, 4368, 5599, 5599 Supp.
- McComb, C. T., 5396, 5669.
- McConnaughey, W. E., 2656, 3756, 3868, 4430, 5022.
- McCool, W. A., 1883, 3133, 3310, 3423, 3533, 3557, 3724.
- McCracken, L. G., 4117, 4756, 5062, 5063.
- McCraven, M. R., 4404.
- McCullough, T. P., 4998, 5021, 5203.
- Macdonald, F. C., 2232, 2295, 2332, 2466, 2524, 3136, 3220, 3720, 4902, 5057, 5218.
- McDowell, M. V., 4137, 4408, 4458, 4992, 5304.
- McDowell, W. E., 2445.
- McFolin, R. L., 2132, 2557.
- McGarry, W. I., 4666, 5558.
- McGeogh, J. E., 2896, 3185, 3527, 4070, 4111, 4630, 5224, 5589, 5604, 5634.
- MacGillivray, D. A., 5670.

Author Index

- McGoldrick, R. T., 3151.
- MacGregor, J. J., 1014, 1018, 1044, 1103, 1143, 1281, 1305, 1417, 1433, 1452, 1457, 1480, 1498, 1552, 1571, 1597, 1616, 1675, 1709, 1739, 1753, 1798, 3164, 4630.
- McInturff, E. B., 5669.
- Mack, J. O., 2154, 2277, 2302, 2353, 2566, 3390.
- McKenna, F. S., 2050, 2163, 2198, 2306, 2325, 2352, 2353, 2379, 2453.
- McKeown, H. L., 4674.
- Mackey, R. J., 3579, 4028, 4313, 4674.
- McKinney, K. R., 5407.
- McLane, J. T., 4085
- McLaughlin, D. J., 3544, 3566, 3825, 4473, 5248, 5261, 5442, 5665, 5677.
- McLean, C. A., 4068.
- McLean, E. A., 4873.
- McMurtrie, R. L., 2307.
- Macpherson, A. C., 4667.
- McPherson, A. E., 3229.
- McQuilkin, J. H., 3075.
- McVay, M. S., 1948, 2550.
- MacVeigh, G. E., 4366, 4798.
- McWhirt, R. B., 4470.
- Maddaus, L., 3293.
- Magnusson, F., 1550.
- Mahloy, J. D., 4849, 5375, 5376, 5438.
- Maiden, R. M., 2978, 3231, 4540.
- Maier, M. W., 2969.
- Main, W. F., 2184, 2217, 2291, 2502, 2878, 3109, 3815, 4998.
- Malich, C. W., 4886, 5017, 5045.
- Maloof, M., 5595.
- Malter, L., 3205.
- Man, E. M., 5434.
- Managan, W. W., 3016.
- Marcus, H., 3229, 4126.
- Marini, J. W., 4241.
- Maris, H. B., 1032, 1146, 1227, 1317, 1342, 1401, 1442, 1493, 1522, 1524, 1526, 1551, 1570, 1644, 1663, 1677, 1721, 1723, 1774, 1816.
- Markell, J. H., 2398, 2432, 2943, 3119, 3939, 4341, 4510, 5054.
- Marks, R. D., 4223.
- Marlow, K. W., 5142, 5184, 5336, 5389.
- Marlowe, D. E., 3181, 3290.
- Marston, A. E., 3357, 3634, 3757, 3981, 5173.
- Martin, F. E., 3159, 3525.
- Martin, J. E., 1936, 1942, 1972, 1973, 1975, 1988, 1990, 2014, 2046, 2051, 2111, 2112, 2120, 2121, 2128, 2133, 2138, 2145, 2148.
- Martin, J. F., 4148.
- Martin, T. J., 3988.
- Marzetta, L. A., 3272.
- Marzolf, J. M., 3095, 3237, 3488, 3961, 4048, 4355, 4445, 5640.
- Maskaleris, C. L., 5209.
- Masket, A. V. H., 2275, 2276.
- Mason, J. P., 5372.
- Mastenbrook, H. J., 4649, 5235, 5310, 5322, 5551.
- Matarrese, L. M., 4887.
- der Mateosian, E., 2028, 2214, 2218, 2661.
- Matnes, R. H., 5631.
- Mathiesen, G. M., 2549.
- Matthea, C. A., 4642.
- Matthews, N. W., 4025.
- Mattson, I. C., 2556.
- Maxson, D. R., 3190, 3194.
- May, T. P., 1695, 2514, 2592, 2671, 2909, 2953, 3093, 3277.
- Mayer, C. H., 2593, 3045, 4998, 5021.
- Mayfield, J. W., 5088.
- Mayo, R. D., 5155.
- Mazur, D. G., 3535, 4016.
- Meade, J. E., 3424, 3679, 3759, 3929, 4306.
- Meads, S. K., 4985.
- Meilander, W. C., 2919, 2949.
- Mengel, J. T., 2955, 3030, 3120, 3171, 3535, 3982, 4393, 4598.
- Mengle, K. L., 1826, 1840, 1863.
- Merchant, H. W., 4375.
- Merker, R. L., 2741, 2802, 3369, 3672, 3797, 4010.
- Merrill, R. D., 4008.
- Messer, E. D., 4149.
- Mettus, R. E., 2845.
- Meussner, R. A., 5331, 5341, 5346, 5506, 5550, 5581, 5620, 5643.
- Meyer, E. G., 2430, 3000.
- Meyer, R. B., 1007, 1025, 1040, 1043, 1051, 1054, 1055, 1068, 1069, 1087, 1089, 1116, 1130, 1132, 1135, 1186, 1273, 1307, 1318, 1328, 1331, 1356, 1421, 1448, 1507, 1525, 1553, 1567, 1599, 1634, 1672, 1673, 1676, 1685, 1694, 1772, 1937, 2064, 2073, 2086, 2089, 2093, 2094, 2115, 2116, 2144, 2160, 2224, 2225.
- Meyer, T. O., 2650, 2730, 2859.
- Mezger, C. C., 2547.
- Michaels, R. M., 5188.
- Michie, H. N., 2296, 2412, 2687, 2796.
- Miedke, R. C., 2526, 2601, 2608, 2623, 2649, 2710, 2717, 2805, 2966, 3001.
- Milak, G. C., 3064, 3252.
- Miles, J. M., 2639, 2783, 2991, 3384, 3899, 4547.
- Militz, R. O., 2320, 2481, 2482, 2499, 2530, 2681, 2944, 3020, 3192.
- Miller, B. W., 3282, 3623, 3833, 4170, 4359.
- Miller, C. W., 3171.
- Miller, H. R., 1175, 1185, 1275, 1295, 1364, 1530.
- Miller, J. H., 5199.
- Miller, J. M., 1714, 2333.
- Miller, K. D., 2569.
- Miller, R. R., 1505, 1536, 1568, 1612, 1619, 1632, 1691, 1701, 1744, 1931, 1997, 2026, 2665, 2931, 3010, 3106, 3201, 3508, 4506, 4990, 5018, 5144, 5225, 5452, 5465, 5568, 5572, 5675, 5678.
- Miller, R. W., 2165, 2573.
- Mills, R. G., 2368.
- Mills, R. L., 2786, 3519.
- Minter, C. C., 3628, 3669, 4437, 5093, 5150, 5299, 5593.
- Mianer, R. D., 3791, 4107, 4532, 4671.
- Mitnick, L. L., 4511, 4707.

Naval Research Laboratory

Mock, D. L., 3014.
 Mode, D. E., 2971.
 Moesta, D. L., 2288, 2369, 2439, 2583.
 Molloy, N. L., 2805, 3001.
 Molnar, D. M., 2492.
 Money, L. J., 2350, 2792, 2816.
 Montague, H., 4560, 4690.
 Monterroso, J. C., 3300.
 Montgomery, C. D., 3200, 3290.
 Moore, A. H., 1065, 1117, 1228.
 Moore, T. M., 2756, 3030.
 Moore, T. O., 4107.
 Moran, H. E., 4121, 4353, 4363, 4653, 5439.
 Moran, N. B., 3924.
 Morehouse, G. D., 3261, 3395, 3750, 3886.
 Morey, R. E., 1435, 1478, 1590, 1705, 2321, 2449, 2698, 2757, 2874, 2880, 3560, 3646, 4718, 4857, 5121, 5293.
 Morgan, C. T., 3965.
 Morgan, G. A., 3486, 3578, 3821.
 Morgan, K. A., 3324, 3676, 4011, 4326, 4425.
 Mortimer, H. T., 4582.
 Moses, S., 3286.
 Moulton, A. B., 2739.
 Muehlhause, C. O., 2750, 2758, 2853, 2951.
 Mueller, W. J., 2529, 2624.
 Muller, J. T., 3276.
 Mundt, H. W., 4929.
 Munson, I. K., 3283.
 Munzer, E. N., 2547, 3847.
 Murphy, C. M., 1541, 1699, 1849, 1857, 1902, 1954, 2060, 2101, 2174, 2227, 2273, 2541, 2576, 3039, 3118, 3273, 3380, 3396, 3430, 3546, 3550, 3667, 3932, 3995, 4066, 4175, 4239, 4429, 4493, 4659, 5181, 5223, 5411, 5451.
 Murray, J. A., 4200.
 Murray, J. F., 4176, 4483.
 Murray, K. M., 4340.
 Musick, J. K., 2665, 4634, 5014, 5332, 5531.

Musselman, M. L., 3156, 3841, 4061, 4180, 4211, 4297, 4537, 4538, 4641.
 Mustin, G., 1680, 1740, 1815, 1820, 1860.
 Myers, C. G., 4085.
 Myers, G. F., 4305, 4952, 5191.
 Myers, J. E., 2823.
 Myers, J. J., 2747.
 Myers, V. W., 2505, 2577, 2812.
 Myskowski, E. T., 1835, 2013, 2131, 2706, 3148, 3563, 3811.

N

Nadeau, R., 4327.
 Nanney, C. A., 5237.
 Nash, A. E., 4394, 4459, 4575, 5122, 5462.
 Navid, B. N., 3244, 3809, 4244.
 Nelhoff, R. A., 5495.
 Neill, R. R., 4138, 4558, 4603, 4933, 4986, 5183.
 Neilon, J. J., 4178, 4329.
 Nelson, E. C., 2092, 2340.
 Nelson, E. E., 4075, 4347, 4525, 4586, 4596, 4868.
 Nelson, S. R. C., 3229.
 Nemecek, J. J., 2218, 2951.
 Nestler, F. H. M., 5118.
 Neth, C. R., 2833, 3043.
 Neubauer, W. G., 5069, 5467, 5688.
 Neuder, S., 5431.
 Neunherz, D. E., 2109, 2344.
 New, E. P., 3022, Vol. 2, App. B.
 Newbegin, R. L., 5550, 5581, 5620, 5643.
 Newcomb, G. O., 2533.
 Newell, H. E., 2538, 2638, 2955, 3030, 3120, 3139, 3171, 3236, 3294, 3358, 3446, 3485, 3715, 4697.
 Newhall, R. M., 3311.
 Newhouse, D. L., 2641.
 Newlin, E. P., 4105, 4604, 4721, 5269.
 Newman, W. P., 2742.
 Nichols, J. H., 5485.

Nichols, O. D., 5662.
 Nicholson, P. F., 5473, 5607.
 Nielson, J. R., 3567.
 Niles, A. W., 4454.
 Noonan, F. M., 5027, 5257, 5503.
 Norgorden, O., 1318, 1331, 1446, 1448, 1525, 1574, 1603, 1638, 1652, 1658, 1669, 1671, 1707, 1734, 1746, 1796, 1824, 1846, 1878, 1985, 2196, 2253, 2738, 3006, 3058, 3106, 3308, 3436, 3538, 4211.
 North, W. R., 4399.
 Norton, R. D., 1019, 1150.
 Nosker, L. W., 2971.
 Nowak, R. C., 2838, 2976.
 Nowstrup, E. I., 4275, 4897, 5142, 5184, 5336, 5389.

O

Oberly, J. J., 3030, 3171, 3880.
 O'Brien, T. D., 1744.
 Ockert, E. H., 3260, 3625.
 O'Connor, J. P., 4414, 4474, 4482, 4741, 5611.
 O'Hara, G. J., 4739, 5236, 5386, 5387, 5545.
 Ohman, G. P., 3271, 3779, 3746, 4050, 4384, 4791, 4799, 4971, 5694.
 Okanski, C. B., 2366, 2425.
 Oleson, M. W., 4440, 4776, 5102.
 Olin, I. D., 3895, 4026, 4428.
 Oliver, R. H., 3106.
 Olmsted, D. T., 3136, 5687.
 Olson, C. O., 3124, 3501, 4371.
 O'Neal, N. V., 4694, 4770.
 O'Neill, J. J., 2746.
 O'Neill, P. F., 2442.
 Oras, R., 2136.
 Ordnung, P. F., 2557, 2574, 2721.
 O'Rear, J. G., 3020, 3545, 3691, 3995, 4066, 4175, 4429, 4859, 5181, 5223, 5411, 5641.
 Ornstein, E., 4963, 5280.
 O'Rourke, R. C., 4306, 4486, 4495, 4697, 4975, 4977, 5052, 5192, 5199, 5315, 5489, 5535, 5662.
 Osborne, M. F. M., 1803, 1952, 2179, 2305, 2563, 2564, 2596, 2599.

Author Index

- Over, J. J., 4220.
- Overhauser, A. W., 4920.
- Overton, W. C., 5252, 5502.
- Owens, R. B., 1006, 1020, 1041, 1057, 1059, 1074, 1085, 1120, 1151, 1152, 1153, 1176, 1177, 1183, 1191, 1192, 1205, 1213, 1217, 1222, 1231, 1241, 1245, 1246, 1261, 1286, 1296, 1298, 1309, 1311, 1312, 1314, 1326, 1341, 1345, 1351, 1361, 1395, 1406, 1414, 1425, 1430, 1439, 1449, 1460, 1462, 1473, 1482, 1486, 1490, 1491, 1503, 1560, 1562, 1565, 1588, 1592, 1594, 2664.
- Oxley, C. L., 2774.
- P**
- Packard, A. C., 3135.
- Packer, D. M., 3713, 4024, 4247, 5276.
- dePackh, D. C., 2238.
- Page, G. C., 3492, 3991, 4914.
- Page, I. H., 2156, 2333, 2382, 2480, 3084, 3087.
- Page, R. M., 1164, 1215, 1937, 3091, 3094, 3532, 3844, 4878, 5126, 5334.
- Page, S. B., 3004.
- Paige, I. M., 4075.
- Paine, H. G., 3617, 3665, 4424, 5032, 5339, 5644.
- Pakan, J. J., 2621.
- Pardue, T. E., 1829, 1958, 2108, 2238, 2317, 2377, 2476, 2513, 2588, 2716, 2963, 3207, 3363, 3628, 4114, 4139, 4215, 4253, 4468.
- Parker, C. V., 2871, 3162, 3245, 3648, 5300.
- Parker, J. G., 4196, 4456, 4559.
- Parker, J. P., 1926, 1950.
- Parker, R. O., 2605, 3750.
- Parsons, J. R., 3278.
- Parsons, L. A., 2588.
- Parsons, R. D., 3610, 3611, 3983.
- Passerini, H. J., 4747.
- Pasternack, S. J., 3225, 3226, 3299.
- Patouillet, C. E., 3452, 4376, 5363, 5689.
- Patterson, R. L., 3942, 4038, 4039, 4069, 4216, 4221, 5208, 5239, 5359, 5390, 5440, 5528, 5692.
- Pauli, S., 3338, 3503.
- Paulsen, W. H., 2943, 3402.
- Pausey, J., 3290.
- Pawley, M. G., 2428, 2797.
- Peake, H. J., 1922, 2714, 3202, 3222, 3601, 3954, 3955, 4112, 4571.
- Pearson, C. A., 3484, 3594, 3810, 3949, 3993.
- Pearson, M. D., 3599.
- Peavy, S. T., 5199, 5404.
- Peck, R. C., 3261.
- Peebles, E. J., 1903, 1957, 2021.
- Peeler, G. D. M., 3123, 4115, 4194, 4843, 5019.
- Pellini, W. S., 3552, 3603, 3647, 3785, 3786, 3790, 3792, 3801, 3811, 4035, 4545, 4578, 4597, 4622, 4713, 4725, 4730, 5609, 5655.
- Peoples, S., 3599.
- Perلمان, J., 3996.
- Perlow, G. J., 2390, 2549, 3030, 3120, 3171.
- Perrine, C. D., 3070, 3135.
- Perry, J. E., 3260, 3625, 4875, 5444.
- Persichino, M. A., 4621, 5024, 5414.
- Peterkin, E. W., 3920, 3926, 3934.
- Peters, C. W., 4668.
- Peterson, H. B., 2182, 3725, 4138, 4558, 4803, 4723, 4933, 4947, 4986, 5139, 5492.
- Peterson, J. B., 2977, 3370.
- Peterson, M. H., 4596, 4635, 4636, 4637, 4891.
- Petrowitz, H. C., 2608, 2710, 2717.
- Pettitt, E. N., 2616.
- Petty, C. C., 4497.
- Pfitzer, C. C., 2254.
- Phillips, D. H., 5279.
- Phillips, D. T., 4444.
- Phillips, E. V., 3161.
- Philpott, L. R., 2081, 2161, 2187, 2234, 3075.
- Pian, T. H., 3229.
- Piatt, V. R., 5456, 5465, 5630.
- Pickett, D. L., 1686, 1804, 1930, 1984, 2072, 2206, 2530.
- Pickett, J. M., 5690.
- Pickor, A. D., 4940.
- Picus, G., 4501.
- Pida, G., 1790A, 1809, 1823, 1833, 1841, 1856, 1893, 1910, 2078, 2084, 2098, 2114, 2164, 2166, 2222, 2789, 2903, 3061.
- Pieper, A. G., 4225, 4658, 4762, 4897, 5625.
- Pierce, R. T., 2307, 2580, 2908.
- Pinkham, R. A., 2686.
- Pitman, A. L., 3618, 3781, 3877, 4844, 4845, 5031.
- Plawchan, J. D., 4330, 4412, 4484.
- Plugge, J. A., 1159.
- Plunkert, J. F., 3164.
- Plymale, W. S., 3143, 3264, 3555, 3598, 3774, 4021, 4382, 4820, 4936, 5078, 5108.
- Pobst, J. W., 3206.
- Podgor, S., 4673, 4897, 5318, 5336, 5592.
- Pohl, H. A., 1966, 2058, 2075, 2273, 2359.
- Poland, W. B., 3916.
- Pollard, A. J., 5550, 5581, 5620, 5643.
- Polkinghorn, R., 2762.
- Poor, E. R., 2125, 2211, 2457.
- Porter, C. D., 3064, 3742, 4186, 4621.
- Porter, J. W., 4138.
- Portmann, P. A., 3497, 3612, 3739.
- Post, D., 4935.
- Post, R. F., 2113.
- Potter, D. A., 2726.
- Potter, R. S., 4670, 4802, 5586.
- Potts, J. S., 3980.
- Powell, E. L., 3127.
- Power, J. R., 2918, 3360.
- Power, W. H., 2129, 2170, 2307, 2908.
- Powles, F. T., 2202, 2330, 2433, 2465, 2490, 5488, 5660.
- Pray, G. E., 1483, 1546, 1736, 1737.
- Presbrey, C. H., 4313, 5472, 5616.
- Pressly, E. C., 3030, 3446, 3715, 4576, 4727, 4757, 4899, 5076, 5179.
- Price, H. C., 5196.
- Price, T. R., 3545, 4672, 4822, 4829, 4851, 5314, 5505, 5673.

Naval Research Laboratory

- Price, W., 5060.
- Priebe, F. K., 3200.
- Pruett, J. R., 2670.
- Pugacz, M. A., 1747, 1770, 1870, 1925, 2019, 2154, 2198, 2277, 3474.
- Pullman, J. O., 5088.
- Punsky, L. M., 2404, 2585, 2831.
- Purcell, J. D., 3171, 3733, 5258.
- Puzak, P. P., 4545, 4597, 4622, 4861, 4919, 5007, 5058, 5220, 5347.
- Q**
- Queen, F. D., 4973.
- Quigley, E., 3341.
- Quinby, G. F., 2856.
- Quinn, R. B., 2410, 3006, 3308.
- R**
- Rabb, J. W., 3521.
- Rabideau, S. W., 2130, 2908.
- Rabin, H., 4571.
- Rado, G. T., 3359, 4782.
- Rae, C. C., 4646.
- Rainey, W. T., 2065.
- Ralston, F. M., 3144.
- Ramberg, W., 3229.
- Ramey, R. A., 3799, 3869, 4030.
- Ramskill, E. A., 1702, 1904, 5456, 5630.
- Randall, C. R., 3123, 4323, 5178.
- Randall, D. L., 5180.
- Rankin, L. P., 1321.
- Rapport, M. B., 4492.
- Raring, R. H., 3453, 4273, 4650, 4683.
- Rattner, S., 3907, 3951.
- Raudenbush, J. E., 3908, 4023, 4103, 4449.
- Rauen, T. J., 4250, 4297, 4375.
- Ravilious, C. F., 4188.
- Ravner, H., 2341, 3380, 3546, 3932, 4066, 4493, 5223, 5411, 5451, 5698.
- Ravner, J. G., 4859.
- Redmond, J. P., 4086, 4536.
- Reeve, E. W., 5040.
- Rehbein, C. A., 1360, 1393, 1527, 1784.
- Reidler, N. J., 5450, 5674.
- Reuss, M. L., 5240.
- Reynard, A. I., 4592, 4927.
- Reynolds, J. B., 2724, 3687, 3806, 3996, 4381.
- Reynolds, W. W., 2571.
- Rhodes, L. T., 3432.
- Riblet, H. J., 3341.
- Ricazone, L. C., 4012, 4642, 5631.
- Riccobono, S., 1690, 1718, 1894, 1906, 2519, 2526, 2548, 3164, 3342, 4424, 5339.
- Rice, J., 2822.
- Rice, J. D., 2589.
- Rice, R. G., 4001, 4517, 4685.
- Rice, S. M., 1921, 1976, 2038, 2265, 2318, 3055.
- Rice, T. K., 2777, 3009, 3287, 3508.
- Rich, H. L., 3151.
- Richards, J. H., 2301.
- Richards, W. A., 5534.
- Richardson, R. A., 2212, 3592, 4417.
- Richmond, W. J., 2391, 2808, 2821.
- Riddle, M. A., 2352, 2353.
- Ridell, F. L., 2416, 2634.
- Riebman, L., 2535.
- Rieth, W. M., 3023.
- Rigby, S., 4123, 4298.
- Riley, M. J., 5089.
- Rinebolt, J. A., 2277, 2353, 2366, 2948, 3390, 3474, 4683.
- Ringwalt, D. L., 3109, 3136, 3800, 5057, 5180, 5218.
- Ripley, K. C., 1400, 1428, 1468, 1506.
- Rischall, H., 4861.
- Ritchie, D. D., 2824.
- Ritchie, W. A., 2830, 2890, 3228.
- Rivers, J. W., 4973.
- Roach, D. B., 2149, 2258, 2352, 2353, 3343.
- Robbins, L. G., 1824, 1846, 1985, 2193, 2338, 2738, 3058, 3564, 3570, 3574, 3893.
- Roberson, R. E., 2568, 3507, 3557, 3727, 4199.
- Roberts, W., 2736.
- Roberts, W. B., 1070, 1072, 1073, 1082, 1088, 1092, 1095, 1096, 1101, 1106, 1109, 1110, 1114, 1118, 1123, 1124, 1125, 1129, 1133, 1137, 1142, 1147, 1148, 1156, 1158, 1166, 1168, 1170, 1171, 1174, 1181, 1184, 1190, 1193, 1198, 1203, 1206, 1207, 1212, 1214, 1215, 1218, 1220, 1221, 1223, 1226, 1237, 1242, 1246, 1249, 1253, 1256, 1262, 1265, 1266, 1276, 1283, 1284, 1289, 1290, 1294, 1297, 1313, 1316, 1320, 1322, 1325, 1330, 1333, 1335, 1340, 1348, 1349, 1358, 1359, 1363, 1365, 1368, 1369, 1371, 1373, 1377, 1384, 1385, 1388, 1396, 1397, 1398, 1399, 1402, 1403, 1405, 1408, 1411, 1418, 1422, 1436, 1441, 1444, 1450, 1451, 1453, 1454, 1455, 1463, 1465, 1469, 1470, 1472, 1477, 1484, 1485, 1488, 1492, 1494, 1497, 1518, 1523, 1528, 1529, 1533, 1535, 1539, 1545, 1557, 1558, 1566, 1572, 1579, 1580, 1583, 1584, 1587, 1655.
- Roberts, W. L., 4384, 4791.
- Robertson, H. S., 2869.
- Robertson, J. T., 2264, 2397, 2658.
- Robinson, G. B., 4212, 5308.
- Rocco, M. D., 1571.
- Rochelle, R. W., 3954, 3955, 4212.
- Rockman, A. G., 4116, 4708, 5432, 5444, 5459.
- Rockwood, C. C., 3030, 3171, 3972.
- Roe, R. M., 3933, 4488, 5158.
- Roebuck, A. K., 2329, 2419, 2625.
- Roeser, P. H., 2084, 2114, 2166, 2283, 2360.
- Roess, H. D., 2732.
- Rogalski, C., 3000.
- Rogers, S. F., 3673.
- Rogovin, A., 2691.
- Rohl, G. E., 5245, 5580.
- Rohlf, D. C., 4866, 4871, 5174, 5378.
- Roman, N. G., 4712.
- Romans, J. B., 3396, 3640, 4022, 4291, 4488, 4783, 4836, 5350, 5463, 5466.
- Romine, H., 5521.
- Rominski, E. A., 1544, 1569, 1576, 1609, 1657, 1731, 1783, 1909, 1935, 1956, 2031, 2363.

Author Index

Romualdi, J. P., 4956.
 Roop, W. P., 3377.
 Roos, G. W., 4537, 4538.
 Root, W. B., 4491.
 Rosch, W. J., 2007.
 Rose, V. S., 4526, 5155.
 Rosen, E. R., 2862.
 Rosen, M. W., 1794, 2421, 2616, 3030, 3139, 3236, 3583, 3641, 3716, 3751, 3829, 3830, 3854, 3946, 4169, 4407, 4513.
 Rosen, N., 2047, 2613, 2982.
 Rosenberg, S. H., 3407.
 Rosenberry, W. W., 2176, 2794, 3017.
 Rosenstock, H. B., 4036, 4189, 4654, 5610.
 Rosett, W., 1021.
 Ross, F. J., 4001, 4685.
 Rotnem, J. O., 4009, 4099.
 Rovinski, R. S., 4897.
 Royce, R. K., 5231.
 Rozler, C. P., 5337.
 Ruark, A. E., 2191, 2216, 2412, 2531, 2532, 2687, 2796.
 Ruhlrig, A. H., 3875.
 Ruhlrig, A. J., 3432, 3671, 3775, 3952, 4764, 4819.
 Rumble, A. R., 3232.
 Rund, P. A., 5013.
 Runner, G. H., 5696.
 Ruskin, R. E., 2931, 4008, 5186, 5235.
 Russell, C. M., 2347, 2442.
 Russell, D. H., 3203, 3814.
 Russell, J. B., 2302, 2476, 2855, 3434.
 Russell, J. K., 5377.
 Ryan, A. H., 2716, 4212, 4572.
 Ryon, J. C., 4063, 4357, 4720, 4785, 4949.

S

Saad, T. S., 3341.
 Sackett, R. S., 3098.
 Saenz, A. W., 5592.

Saffitz, I. M., 3317, 3687, 3996, 4381.
 Sakiotis, N. G., 5172, 5321.
 Salkovitz, E. I., 2810, 2947, 4865, 4968, 4974, 5161, 5321.
 Salzberg, B., 2426, 3472, 3622, 4125, 4241.
 Sanders, W. H., 1315, 2205.
 Sanderson, J. A., 1227, 1317, 1342, 1391, 1500, 1527, 1602, 1615, 1692, 1989, 2024, 2122, 2140, 2199, 2247, 2249, 2266, 2408, 2537, 2731, 2755, 3260, 3327.
 Sandoz, G., 3491, 4713, 4725, 5268, 5550, 5581, 5620, 5643.
 Sands, A. G., 4137, 4408, 4458, 4992, 5304.
 Santilli, A., 4116.
 Santini, N., 5203.
 Sarahan, B. L., 3177, 3714.
 Sass, M. A., 5476.
 Saunders, A. W., 5239, 5390, 5528, 5692.
 Saunders, C. E., 3039, 3118, 3550.
 Saunders, R. A., 3285, 3382, 3703, 3704, 3705, 3924, 4822, 5554.
 Saxton, H. L., 1793, 2076, 2631, 3467, 3807, 3919, 4003, 4515.
 Schach, M., 3587, 3936, 4142.
 Schaefer, D. H., 3773, 4018, 4098, 4567, 4681, 4702.
 Schaeffer, G. W., 3208.
 Schafer, H. G., 3482.
 Schaffert, J. C., 3947, 4680, 4706.
 Schaller, F. D., 2045.
 Schaum, J. H., 2860, 2947, 2993, 3025, 3296, 3304.
 Schechter, W. H., 1997, 2665.
 Schecter, R. M., 3537, 4008.
 Scherrer, V. E., 3730, 4198, 4252, 4345, 4977, 5192.
 Schifflett, P. R., 2955.
 Schindler, A. I., 4788, 4865, 4920, 4968, 4974, 5161, 5321, 5481, 5686.
 Schlestinger, H. L., 2964, 3107, 3147, 3208.
 Schlestinger, L., 1727, 1752, 2146, 2157, 2294, 2640, 2834, 3056, 3155.
 Schleiter, G. C., 1104, 1105, 1180, 1552, 1556, 1571, 3505.
 Schmehl, F. L., 3251.

Schmidt, R. F., 4211, 4297, 4462.
 Schmieleman, W. A., 4280, 4295.
 Schnitzler, A. D., 4310.
 Schooley, A. H., 1955, 2926, 2962, 3094, 3559, 3660, 4049.
 Schrenk, M. H., 1008, 1014, 1018, 1044, 1045, 1046, 1050, 1056, 1067, 1077, 1105, 1107, 1238, 1272, 1337, 1343, 1357, 1387, 1452, 1575.
 Schroeder, C. A., 3171, 4598, 4995, 5227.
 Schroeder, L. D., 4142.
 Schuldiner, S., 3277, 3548, 3616, 5091, 5129, 5171, 5291, 5333, 5398, 5454, 5472, 5562, 5616.
 Schulkin, M., 3843.
 Schwartz, L. S., 2853, 2906, 3005, 3111, 3117, 3170.
 Schwarz, D. R., 2526, 2601, 2608, 2649, 2805.
 Sclar, N., 4501.
 Scobey, J. E., 4665.
 Scorgie, D. G., 3541, 3744, 3773, 4006, 4018, 4205, 4251, 4589.
 Scott, D. H., 3649, 4609.
 Scuderi, D. T., 1993, 1994, 2004, 2016, 2044, 2080, 2104, 2118, 2789.
 Seal, R. T., 3693, 3867, 4623.
 Searfoss, C. W., 3392, 3444, 4225, 5487.
 Searle, L. V., 3248, 3872.
 Seddon, J. C., 2427, 3030, 3120, 3171, 3829, 4304.
 Seebold, R. E., 3330, 3383, 4506, 5152, 5461, 5520.
 Sees, J. E., 5051.
 Segrave, H. J. E., 3393, 3984.
 Seidenstein, S., 5548.
 Seren, L., 4090.
 Sessions, L. W., 2898.
 Seward, J. S., 4507, 4551, 4652.
 Shaddix, W. N., 3816, 5125, 5228.
 Shafer, E. J., 4315.
 Shafer, H. G., 3017.
 Shafrin, E. G., 3439, 3674, 3805, 5053, 5394.

Naval Research Laboratory

- Shahinian, P., 4550, 4731, 4928, 5036, 5037, 5133, 5603.
- Shanahan, F. J., 3106, 4490.
- Shapiro, A., 5059.
- Shapiro, P., 4345, 4937, 5052.
- Shatavsky, M., 2601.
- Shaw, C. H., 3022.
- Shaw, J. E., 3290.
- Shear, N., 4515, 4768, 5160.
- Shearer, L. D., 4314.
- Shearin, P. E., 2192, 2245, 2296, 2412, 2687, 2796.
- Sheets, M. J., 2229, 3048.
- Shen, K. Y., 5455.
- Shepherd, C. M., 3478, 3876, 4089, 4885, 5211, 5212, 5635.
- Sheppard, M., 2448.
- Sherertz, P. C., 2772, 2826, 3455.
- Sheridan, J. P., 3372.
- Sherrer, V. E., 4197.
- Shetterly, W. B., 3987.
- Shifflett, P. R., 3013, 4419.
- Shipman, J. D., 3171, 4404, 5309.
- Shipman, J. R., 4354.
- Shoemaker, J. R., 2424, 2791, 3652, 3855, 4323, 4505.
- Shoemaker, L. E., 2390.
- Shrader, J. E., 1400.
- Shreve, O. D., 2319.
- Shuler, M. P., 5199, 5233, 5489, 5532.
- Shuler, N., 5535.
- Shuler, R. L., 4496, 5553, 5689.
- Shull, H., 2227, 2273, 2576.
- Shulman, F., 3950.
- Shulman, J. H., 3429, 3736, 3930, 4062, 5326.
- Shupe, P. D., 1855, 1864, 2854.
- Sidiqw, B., 2676.
- Stiegel, G. J., 2154.
- Stiegel, S., 2139, 2619, 2831.
- Stierich, W. C., 2514, 2656, 2871.
- Stevens, W., 5577.
- Sigley, D. T., 3181.
- Silvester, W. R., 5227.
- Simas, V. R., 5055, 5065, 5215.
- Simmons, A. J., 3542, 3599, 3748, 3985, 4193, 4218, 4286, 4687, 4894, 4991.
- Simmons, B. D., 3316, 3857.
- Simon, A. C., 3941, 5106, 5149, 5679.
- Simpson, C. M., 2472.
- Sinaiko, H. W., 4213, 4565, 4996, 5003.
- Sinclair, E. J., 4119.
- Singer, L. S., 1126, 1210, 1543, 1641, 2033, 4887.
- Singleterry, C. R., 3401, 3672, 3721, 3743, 3787, 3966, 3971, 4022, 4133, 4175, 4177, 4460, 4618, 4627, 4772, 4994, 5226, 5350, 5422, 5429, 5457, 5474, 5606, 5623, 5663, 5680, 5698.
- Sink, W. G., 1195.
- Siry, J. W., 2955, 3030, 3120, 3139, 3171, 3358, 4477, 4697, 5066, 5097.
- Skaggs, G. A., 5324.
- Skinner, K. G., 4942, 5105.
- Slater, I. G., 3181.
- Slater, M., 4403.
- Slayton, W. T., 4077, 4433.
- Sledge, O. D., 2470, 2509, 5574, 5649.
- Sloan, R. W., 2430.
- Sloanaker, R. M., 4998, 5021, 5485.
- Small, B. I., 3595.
- Smallwood, V. O., 2710, 2805, 2966.
- Smith, C. A., 3356.
- Smith, C. H., 2421, 2427, 2955, 3030, 3120, 3139, 3171, 3671, 3944.
- Smith, C. P., 3171, 4276, 4576.
- Smith, D. C., 2596, 2746, 2846, 2861, 3033, 3274, 3285, 3382, 3550, 3567, 3657, 3703, 3704, 3705, 3924.
- Smith, E. C., 5418.
- Smith, E. M., 2896.
- Smith, E. W., 3022, Vol. 2, App. B.
- Smith, H. H., 5661, 5666.
- Smith, H. L., 2531, 2532, 2560, 2687, 2796, 4792, 5222, 5521, 5547.
- Smith, J. A., 5550, 5581, 5620.
- Smith, N. L., 3251, 3546, 3615.
- Smith, P. L., 2076.
- Smith, P. S., 2339, 2505, 2537.
- Smith, R. C., 4468, 4846, 5323, 5450.
- Smith, R. J., 4974, 5481.
- Smith, R. P., 3366.
- Smith, S. H., 2571, 2777, 3009, 3311, 3405, 3912, 4370, 5018, 5560, 5563.
- Smith, S. T., 3335, 3718, 5671.
- Smith, W. G., 4417.
- Smudski, P. A., 3093.
- Smura, E. J., 4191, 4439.
- Snider, R. H., 3728.
- Sniegowski, P. J., 5223, 5411, 5641.
- Snodgrass, R. B., 4407, 4531.
- Snow, G. A., 4953.
- Snow, J. R., 2575, 2647.
- Snyder, E. O., 3816.
- Snyder, K. G., 4657.
- Solem, R. J., 4095, 4285.
- Solomon, E. M., 3489, 3964.
- Sorensen, N. R., 4834.
- Southwell, C. R., 4929, 5002, 5153, 5370, 5517, 5673.
- Sowkaras, K. M., 1197, 1233, 1255, 1269, 1431, 1434, 1461, 1464, 1511, 1516, 1517, 1613, 1636.
- Spalc, G. H., 5342.
- Spalding, J. P., 3129, 3144, 3318.
- Spann, J. R., 5144, 5452, 5568, 5675.
- Speck, J. C., 1867.
- Spencer, C. L., 2911, 3015, 3102, 3176, 3512, 3884, 4007.
- Spencer, L. F., 4650.
- Spessard, D. R., 2944, 3020.
- Spitler, R. H., 3913.
- Spitz, H., 2790, 3830, 4227, 4983.
- Spriggs, J. O., 2689, 2852.
- Springer, H. S., 2230.
- Spurlock, E. M., 4967.

Author Index

- Squires, R. M., 2216.
- Srawley, J. E., 4838, 5124, 5127, 5263, 5290, 5348, 5367, 5392, 5460, 5507, 5516, 5609, 5617.
- Stafford, B. H., 2819, 3575, 3816, 3910, 4047.
- Stage, H. C., 2847.
- Stainback, J. M., 1796.
- Stambach, G. L., 5029, 5317.
- Stamm, G. L., 4382, 4820, 4936, 5078, 5108, 5303, 5327, 5605.
- Stamulis, A., 5426.
- Stankey, J. E., 1943.
- Staples, J. C., 2816.
- Stark, H. J., 1641.
- Stauss, H. E., 3159, 3525, 5328, 5416.
- Stecca, A. J., 2898, 3101, 3240, 3241, 4694, 4770, 4796.
- Steckel, J. K., 2713, 2978, 3601, 3784, 4123, 4841.
- Steele, L. E., 5278, 5305, 5479, 5483, 5582, 5629.
- Steele, M. C., 3656.
- Steinberger, R. L., 5109, 5449, 5487.
- Steinkuller, E. W., 5225, 5452, 5675.
- Stephenson, E. B., 1090, 1199, 1204, 1282, 1413, 1466, 1549, 1610, 1670, 1722.
- Stetson, R. L., 3255.
- Stevens, D. K., 3014.
- Stewart, H. S., 2577, 2806, 2812, 3484, 4116, 4416, 4556, 5199, 5535.
- Stewart, H. W., See Stewart, W. H.
- Stewart, W. H., 2006, 2052, 2063, 2141, 2181, 2274, 2591, 2663, 2744, 2946, 5245.
- Stifler, W. W., 2162.
- Stine, P. T., 3324, 4144, 4171, 4552, 5636.
- Stokes, A. J., 2510, 2570, 2677.
- Stokes, R. G., 3398.
- Stokes, S., 5591.
- Stolp, B. N., 2364, 2579, 2734, 2760.
- Stone, D. E., 5048, 5079, 5369.
- Stone, E. E., 2813, 3721.
- Stone, G. O., 1236, 1280.
- Stone, J. P., 4408, 4990, 5225, 5675.
- Stone, M. G., 5681.
- Stone, R. R., 3631, 4081.
- Stoop, J., 5347, 5550, 5581, 5620.
- Stoops, C. W., 3075, 3391, 3816, 5148.
- Strain, C. V., 3030, 3671, 3875, 3987, 4306, 4486, 5243, 5311, 5379, 5498, 5583, 5619.
- Strauss, M. B., 5427.
- Strauss, S. W., 4906, 4961, 5550, 5581, 5620.
- Streeter, J. R., 2276, 2290, 2863.
- Strong, J. S., 1895, 1914, 1969, 2070, 2141, 2378, 2663.
- Stroup, R. W., 3695.
- Struthers, F. W., 1375, 1538, 2850, 2932, 3216.
- Suessle, R. H., 3200.
- Sullivan, A. M., 3636.
- Sullivan, F. F., 4618, 5457.
- Sullivan, M. V., 2165, 2227, 2273, 2308, 2654.
- Sumida, D., 5199.
- Summers, S. D., 3125.
- Suski, H. M., 4524, 4568, 4645, 4716, 4812, 4826, 5067.
- Suther, J. A., 2287, 2369, 2835, 3012.
- Swanson, S. R., 3998, 4037, 4236, 4374.
- Sweeney, J. S., 4954, 5205, 5696.
- Sweeney, T. R., 3940, 4409, 4411, 4672, 4822, 4829, 4851, 5314, 5363, 5505, 5673.
- Sweer, J., 1447, 1623, 1656.
- Swenson, A. D., 1872, 2096, 3632.
- Swick, E. S., 4420.
- Swift, H. F., 5271, 5319.
- Sydoriak, S. G., 3007, 3008.
- Symonds, P. S., 2108, 2209, 2236, 2293, 2317, 2372, 2513, 2761, 2963, 2976.
- T**
- Talbot, R. V., 2238, 4203, 4306, 4354, 4377, 4404, 4419, 4486.
- Talmadge, H. G., 3834, 5624, 5638.
- Tanner, H. A., 2691, 2979, 2987, 3112, 3255, 4137.
- Taylor, A. H., 2305.
- Taylor, F. V., 3249, 3887, 4105, 4333, 4380, 5269, 5424, 5548.
- Taylor, H. A., 4755.
- Taylor, H. F., 1443, 1456, 1474, 1543, 1561, 1609, 1657, 1698, 1705, 1731, 1783, 1909, 1935, 1956, 2031.
- Taylor, J. H., 4504, 4759, 4778, 5453.
- Taylor, P. C., 2822.
- Taylor, P. W., 2576, 3141.
- Taylor, R. E., 2365, 3030.
- Taylor, T. S., 2230.
- Taylor, W. H., 1831, 1933, 1971, 2000, 2055, 2124, 2208, 2219, 2239, 2297, 2300, 2343, 2464, 2483, 2510, 2528, 2570, 2579, 2590, 2597, 2602, 2603, 2604, 2668, 2701, 2702, 2729, 2734, 2760.
- Teague, P. C., 2677.
- Teener, J. W., 4366, 4821.
- Telanbawm, M., 3385.
- Temple, K. L., 2009, 2155, 2273, 2578, 3284.
- Tesauro, C. B., 5508.
- Theus, R. B., 4145, 4146, 4197, 4198, 4277, 4412, 4561, 4695, 4701, 5052, 5558, 5697.
- Thiebaud, P. M., 4401.
- Thomas, F. S., 1612, 1868, 1877, 1877A, 1877B, 1946, 1986, 2130, 2178, 2314, 2629, 2636, 3798, 4430.
- Thomas, T. M., 3998, 4175, 4291, 4539, 4618, 4686.
- Thomason, J. F., 1748.
- Thompson, A. G., 2754, 3242.
- Thompson, J. F., 4971.
- Thompson, J. K., 3003, 3808.
- Thompson, K. P., 4629.
- Thompson, L. C., 4743.
- Thompson, L. J., 4929.
- Thompson, S. P., 3181, 3337, 3371, 3561, 4199, 5048, 5079, 5210, 5369.
- Thornhill, A. F., 4577, 5146, 5534.
- Thrift, S. R., 2472, 2801.
- Thurman, F., 2822.
- Tidball, R. A., 3243.
- Tiedemann, J. B., 4139, 4499.

Naval Research Laboratory

Tillman, R. Q., 4340, 4762.
 Timm, R. S., 2769, 3092.
 Timmons, C. O., 5223, 5451.
 Tinsley, J. L., 5433.
 Tinatman, C. C., 2354, 2355.
 Tipton, C. L., 4105, 5013.
 Titcomb, F. C., 4357.
 Titus, J. W., 3108, 3253, 4518, 4732, 5549.
 Todd, B. J., 2571.
 Toffolo, D. S., 2669, 3953, 4912, 4931, 5060, 5090 App. E., 5494.
 Toleman, S. L., 1785, 1821, 2020, 2087, 2328, 2393, 2634, 3456.
 Tomczak, J. S., 4096.
 Tompkins, R. D., 4428, 4660, 5214, 5579, 5637.
 Tool, A. Q., 3663, 4532.
 Toomire, P. E., 3643, 3819.
 Toothman, H. L., 5476, 5480.
 Toth, E., 1979, 2479, 3230, 3375, 3605, 4049, 4294, 4321, 5664.
 Tousey, R., 1788, 1825, 1848, 2034, 2040, 2061, 2199, 2226, 2303, 2530, 2627, 2670, 2722, 3030, 3120, 3171, 3733, 3810, 4024, 5087.
 Townsend, J. W., 3928, 4576, 4727, 4757, 4899, 5073, 5076, 5087.
 Trbovich, M., 3034, 3387, 3643, 3819, 4029.
 Treittel, L. M., 1618.
 Trent, E. M., 5445.
 Trent, H. M., 1793, 2162, 3362, 3377, 3473, 4199.
 Trevor, J. B., 2059, 2554, 3091.
 Trexler, J. H., 2900, 3213.
 Trimble, R. M., 2192, 2245, 2296, 2412, 2687, 2796, 5116.
 Trotter, B. E., 4907, 5005, 5330.
 Troxel, D. I., 3701, 4230.
 True, V., 3755, 3888.
 Truesdell, C. A., 3457, 3553, 3554, 3558.
 Tucker, J. W., 3415, 3463, 3681, 3779, 3789, 4201, 5260, 5284.
 Tucker, W. M., 3292, 4029.
 Turner, E. F., 5060.
 Tve, R. L., 1602, 1689, 1703, 1804, 1934, 1998, 2230, 2679, 3725, 4138, 4353, 4363, 4558, 4853, 4933, 4986, 5139, 5492.
 Tyson, O. A., 3425, 3498, 3588, 3614, 3650.

U

 Ueberall, R. L., 2731.
 Uglow, K. M., 3030, 3535, 3982, 4016.
 Unholtz, K., 3276.
 Unlacke, C. L., 3027, 4134, 4976, 5201, 5238, 5247, 5338, 5399, 5441, 5508, 5511, 5540, 5564, 5584, 5585, 5589.
 Upp, C. B., 4128.
 Urick, R. J., 3392, 3444, 3556, 3630, 3729, 3796, 3919, 4084, 4195, 4530.
 Urrico, F. X., 4094, 4233, 4415.
 Utley, F. H., 5187.

V

 Vafiades, N., 3996.
 Vall, C. P., 5374.
 VanAllen, R. L., 4174, 4543, 4681, 5071.
 Vandegriff, R. B., 3586.
 Vander Vennen, R. E., 4823, 4887.
 Vane, F. F., 3151, 3200.
 VanSickle, G., 3171.
 VanStraten, F. W. (CNO), 5235.
 VanValkenburg, E. S., 2807, 3130, 3638, 3947.
 Varela, A. A., 2559, 2759, 3313, 3368, 4268.
 Veeder, J. H., 5508, 5511, 5564, 5584, 5585.
 Veilleux, T. A., 1730, 1738, 1761.
 Veith, R. J., 5489.
 Venezky, D. L., 3590, 4001, 4685, 4806.
 Venn, D. A., 3892, 4140, 4647, 5664.
 Ventry, L. P., 3142.
 Verbeke, P. R. G., 2326.
 Vick, E. K., 2411.
 Vignall, J. A., 4343, 4662, 5194, 5633.
 Vigness, I., 1605, 1683, 1684, 1749, 1792, 1829, 1837, 1956, 1962, 1965, 2108, 2209, 2236, 2267, 2293, 2317, 2331, 2362, 2372, 2377, 2414, 2485, 2497, 2645, 2836, 3200, 3476, 3495, 3745, 3794, 3818, 4139, 4253, 4263, 4264, 4358, 4468, 4719, 4724, 5618.
 Vitkovitsky, I. M., 4977, 5192, 5489.
 Vlannes, P. N., 4711, 4906.
 Vogt, R. H., 4165, 4729, 5142, 5184, 5389, 5632.
 Voisich, J., 2102.
 Volk, M. C., 4843.
 VonBatchelder, F. W., 2947.
 VonWald, W. A., 3002, 4606, 5044, 5272.
 Votaw, M. J., 4270, 4398.

W

 Wada, W. W., 4015.
 Waddel, R. C., 1926, 1950, 1970, 2200, 3951, 4212.
 Wade, G., 3778.
 Wagner, R. B., 3391, 3816.
 Wald, B., 4410, 4612, 4905, 4957, 5128, 5302, 5320, 5536.
 Waldron, L. J., 3547, 4210, 4317, 4586, 4587, 4596, 4635, 4636, 4637, 4891.
 Wales, C. P., 4693, 5167, 5298, 5561, 5693.
 Walker, B. E., 4990, 5144, 5452, 5675.
 Walker, G. P., 1255, 1274, 2841.
 Walker, W. D., 2577, 2812.
 Wall, G. F., 3164, 3445, 3608, 3758, 5025, 5077, 5199, 5270.
 Wallace, C. R., 2230.
 Wallace, J. D., 1065, 1117, 1228, 1257, 1336, 1341, 1364, 1412, 1437, 1553, 1567, 1604, 1614, 1637, 1648, 1664, 1755, 3230, 4032.
 Walsh, J. E., 3229.
 Walsh, J. P., 2267, 2818, 2927, 3151, 3302, 3596, 3597.
 Walter, C. R., 3940.
 Walter, D. I., 3577.
 Walters, A. W., 2967, 3050, 3051, 3052, 3059, 3354, 3410, 3411, 3431, 3494, 3515, 3524, 3788, 3804, 3826.
 Walters, F. M., 1633, 1821, 1850, 1888.
 Ward, E. W., 4232, 4492, 5542.
 Wardrip, B. C., 5382, 5402, 5672.
 Watanabe, K., 3733.
 Waterman, P., 3022, 3106, 3188, 3280, 5343.

Author Index

- Wathen-Dunn, W., 1802, 3266, 4067.
- Watson, K. M., 2381, 2423, 2455, 2498, 2543, 2839, 2870.
- Watt, A. D., 2197, 2885, 3154, 3320, 3856.
- Watterson, C. C., 3659, 3822, 3838, 4522, 5694.
- Wayland, J. H., 3181.
- Wayne, R. C., 2335, 2336, 2868.
- Weaver, E. O., 3133, 3374.
- Weaver, W. E., 2628, 2653, 2877, 2879, 3289, 3326, 3403, 3516, 3520, 3609, 3619, 3632, 3870.
- Webb, D. E., 4498.
- Weber, W. H., 2516.
- Webster, J. R., 5234.
- Webster, R. A., 1534, 1540, 1600.
- Wedding, P. L., 3959, 5382, 5402.
- Weeber, C. G., 3290.
- Weedman, W. F., 3531, 4306, 4431, 4486.
- Weertman, J., 4970, 4979, 5123, 5176.
- Weidemann, F. K., 2827, 2884, 2989, 3325, 3336, 4096, 4911.
- Weidlein, E. R., 2571.
- Weimer, E. W., 3728.
- Weinberger, L. A., 3787, 4369.
- Weiner, M. G., 4213.
- Weiss, D. E., 3276.
- Weissler, A., 2107, 2405, 2436, 2698, 3483.
- Weller, S. J., 2892.
- Wells, A. A., 4705, 4935.
- Wente, V. A., 4293, 4364.
- Werner, R. C., 3243.
- Werner, R. S., 3349.
- Wessinger, D., 3009.
- Westall, E. B., 3040.
- Westfall, F. O., 5294, 5524.
- Weston, B. H., 3150, 3288, 3668.
- Whaley, W. M., 2518, 2523, 2611, 2626, 2628, 2653, 2877, 2879, 3326.
- Whipple, R. E., 3708.
- White, C. F., 2582, 2587, 2657, 2668, 3167, 3272, 3303, 3917, 4011, 4100, 4261, 4329, 4732, 4879, 5039, 5056, 5170, 5420.
- White, E. A., 2669, 2807, 2865.
- White, J. C., 1426, 1505, 1586, 1608, 1703, 2665, 5454, 5456.
- White, J. L., 4961, 5159, 5555.
- White, L., 2642.
- White, L. R., 2447, 2520, 2992, 3509, 3524, 3760, 3812, 4764.
- White, R. E., 2095, 2347, 2832, 3548, 3753.
- White, W. A., 2196, 3511, 3661, 4665.
- Whiteley, R. B., 3409, 3576, 4540, 4744.
- Whitfield, C. M., 4192, 4820, 5557.
- Whiting, W. K., 4284.
- Whitmer, W. C., 1808, 1819, 1839, 1840, 3127, 3373, 3506.
- Whitt, D. L., 5435.
- Whybrew, W. E., 1127, 1323, 1360, 1381, 1410, 1580.
- Whyte, J. W., 3970.
- Wick, W. C., 2567.
- Wiederspahn, W. H., 5234.
- Wilcox, R. H., 4307, 4385, 5476.
- Wilkins, O. L., 2965.
- Wilkinson, P. G., 3443, 3712, 3719.
- Willett, D. K., 4324, 4403.
- Williams, C. H., 1055, 1157, 1434.
- Williams, Dale D., 3865, 3894, 5678.
- Williams, David, 2268, 2370, 2415.
- Williams, J. R., 2632, 3817, 4222, 5539.
- Williams, J. W., 1867.
- Williams, K. G., 1971, 2696, 3935, 4249, 4651, 5423, 5443.
- Williams, M. F., 3754, 4045, 4287, 4577, 5092, 5146, 5534.
- Willis, W. J., 4643.
- Wilson, B. J., 4102, 4392, 4827, 4828.
- Wilson, D., 2365, 2390.
- Wilson, D. F., 5080, 5476.
- Wilson, M., 3002.
- Wilson, M. S., 3447, 3807, 3919.
- Wilson, R. H., 5066.
- Wilson, R. T., 2102.
- Wilson, T. G., 3923.
- Wing, A. B., 4402, 4553.
- Winkler, L., 4489, 5273.
- Winnick, A. B., 3092, 3317.
- Winston, O. C., 3968, 4351, 5339.
- Winzemer, A. M., 3179, 3314.
- Wiseman, W. W., 1504.
- Withrow, W. E., 2202, 2594, 3053, 3217, 3914, 4222, 4455, 5155, 5353.
- Witkowski, T. T., 3846.
- Witschonke, C. R., 2026, 2334, 2487, 2704.
- Wolfe, J. K., 2009, 2155, 2165, 2227, 2273, 2308, 2573, 2578, 2785, 2787, 2820, 3284.
- Wolicki, E. A., 4833.
- Wood, J. W., 5683, 5684.
- Woods, F. J., 3508, 3756, 3868, 4651, 5423, 5443.
- Woodsmall, F. J., 1722.
- Woodward, K. E., 4179, 4789.
- Worden, C. O., 2277.
- Work, G. W., 2314, 2629, 2636, 3881, 4693, 4775, 4844, 4845, 4852, 5031.
- Worrall, R. H., 1353, 1374, 1380, 1407.
- Worsley, D. A., 4490.
- Worsley, R. J., 3774.
- Wrench, J. W., 3151.
- Wright, B. D., 5493.
- Wright, J. H., 1996, 2137.
- Wright, J. W., 5340.
- Wright, O. N., 2595.
- Wright, R. W., 2973, 3036, 3112, 4458, 4745, 5304.
- Wrye, L. M., 3518.
- Wuerffel, H. L., 2384, 2640, 2834, 3056, 3155, 4397, 4498.
- Wyman, F. E., 3580, 3823, 3873, 4076, 5023.
- Wyman, R. C., 2994.
- Wyre, L. M., 3027.

Naval Research Laboratory

Y

Yadah, T. J., 5524.
Yagelowitch, J. J., 5154, 5209, 5527.
Yandle, J., 4327, 4417.
Yaplee, B. S., 4787, 4923.
Yates, H., 3852, 4504, 4759, 4778, 4786,
5033, 5453.
Yetter, M. O., 2378, 2744, 3421.
Youmans, A. B., 3914, 4907.
Young, C. E., 2829, 3863.
Young, F. C., 5475.
Young, I. C., 2670.
Young, J. A., 5265.

Young, J. D., 3502, 3678, 3832.
Young, J. L., 3022, Vol. 2, App. B.
Young, J. W., 5409, 5458.
Young, L. C., 1039, 1115, 1135, 1259, 1300.
Young, M. L., 3850, 5079.
Young, M. P., 4668, 5025, 5077, 5189,
5270, 5625.
Young, S. E., 2666, 2818.

Z

Zaander, C. J., 2423.
Zeek, R. W., 2875, 3046, 3072, 3422, 3460,
4269, 4294, 4599, 5381, 5403.
Zerfoas, S., 3398, 4591.

Zettle, E. N., 1629, 1675, 1709, 1710,
3209, 3339, 5023, 5540, 5585.

Zimmerman, J. R., 2549.

Zimmerman, W., 3183, 3879, 4591.

Zirm, R. R., 2452, 2778, 2783, 3247, 4390,
4688, 4877, 5615, 5621.

Zisman, W. A., 1595, 1621, 1640, 1686,
1804, 1849, 1857, 1930, 1984, 2072, 2174,
2206, 2227, 2273, 2474, 2576, 2681, 2741,
2923, 2944, 3020, 3141, 3267, 3364, 3369,
3396, 3430, 3439, 3489, 3545, 3651, 3667,
3674, 3680, 3797, 3805, 3824, 3845, 3950,
3971, 3995, 4010, 4066, 4080, 4167, 4175,
4278, 4362, 4389, 4539, 4569, 4684, 4686,
4734, 4753, 4932, 4943, 4946, 5053, 5207,
5244, 5256, 5306, 5325, 5364, 5383, 5394,
5401, 5463, 5471, 5556, 5606, 5699.

SECTION 3
SERIES REPORTS

SERIES REPORTS

Absorption of 21 CM Radiation by
Interstellar Hydrogen.

I - 4448

Aerobee-HI Report.

1 - 4576
2 - 4727
3 - 4757
4 - 4899
5 - 5076

AEW Interference Report.

A - 2766
B - 2767

Alkaline Storage Batteries, the Self Dis-
charge of the Positively Charged Nickel
Oxide Electrode.

I - 4844
II - 4845

Alkyd Resins for Vinyl Finishes.

I - 4257
II - 4663

Annual Report.

1947 - 3146
1948 - 3420
1949 - 3500
1950 - 3700

Anodic Behavior of Zinc Alloys Used to
Protect Steel in Sea Water.

i - 2389
II - 2592

Antenna Feeds for Tracking Radars.

I - 3268
II - 3334

Anti-Corrosive Coatings for Magnesium.

I - 2835
II - 3012
III - 3393

Antifouling Paint Studies.

I - 2591
II - 2744
III - Cancelled
IV - Cancelled
V - Cancelled
VI - 3421
VII - 3437

Application of an X-Y Pulsed Measuring
System to Polarization Studies.

I - 5616

Armour Fracture Size Effect Study. (Only
part of the University of North Carolina
program reports on this study became NRL
reports. Title varies.)

PR 23 - 2191
PR 22 - 2192
- 2216
PR 24 - 2245
PR 25 - 2296
PR 27 - 2412
- 2687

Aviation Gasoline Contamination Detection
Kit.

I - 4516

Bend Testing at Ballistic Speed.

I - 2531
II - 2532

Chamber Tests with
Human Subjects.

I & II - 2208
III - 2219
IV - 2239
V - 2464
VI - 2483
VII - 2528
VIII - 2597
IX - 2579
X - 2590
XI - 2602
XII - 2603
XIII - 2604
XIV - 2701
XV - 2702
XVI - Cancelled
XVII - 2688
XVIII - 2734
XIX - 2729
XX - 2760

Characteristics of Radar Sea Clutter.

I - 4902

Characteristics of Short Radius Tube Bends.

I - 2317
II - 2761
III - 2963

Charpy-V Transition Temperatures of
Ferritic Iron Alloys.

I - 5290
II - 5367

Chemical Studies on Fungicides.

I - 2877
II - 2879
III - 3326
IV - 3516
V - 3520
VI - 3609
VII - 3619
VIII - 3632

Naval Research Laboratory

Cooperative Fuel Testing.

A - 1012
B - 1031
C - 1049

Correlation of the Thermodynamic and Electrical Characteristics of Blast Cooled Aircraft Generators.

I - 4609
II - 4610
III - MR 571
IV - 5169

Corrosion and Fouling of Sonar Equipment. (Title varies.)

I - 2477
II - 2489

Corrosion of Metals in Tropical Environments.

I - 4929
II - 5002
III - 5153
IV - 5370
V - 5517

Crack Propagation Tests of High Strength Sheet Materials.

I - 5127
II - 5263
III - 5348
IV - 5460
V - 5507

Current and Temperature Rise in Aircraft Cables

I - 3587
II - 3936
III - 4142

Daytime Observation of Stars and Planets.

I - 1788
II - 1825
III - 1848
IV - 2061

Decision-Making Studies.

I - 5418

Degradation of Polymers by Ultra-Violet Irradiation.

I - 5257

Eddy Current Type Flaw Detectors.

I - 1656
II - 1683
III - 1792
IV - 1837
V - 1923
VI - 2256

Electrical Properties of Glass Fiber Paper.

I - 4019
II - 4042

Electrochemical Mechanisms of Noble-Metal/Hydrogen Systems.

I - 5091
II - 5129
III - 5171
IV - 5333

Electrophoretic Studies on Bacteria.

I - 5495

Electroplating Baths for Ultra-High Strength Steels.

I - 4906

Electrostatic Deflection Systems for Plan Position Indicators.

I - 3161
II - 3367

Examination of Toxic Agents for Fungicidal Coating Materials.

I - 2518
II - 2611
III - 2626
IV - 2628

Exposure Meter for Radiography.

I - 1801
II - 2026
III - 2214

Filterability of Distillate Fuels.

I - 5565

Fluidity of Cast Steel.

I - 1264
II - 1474
Summary
Report - 1657

Full Scale Shock Tests - USS Niagara, APA87.

I - 3404
II - 3417
III - 3454
IV - 3561

Fungus Inhibitive Properties of Organic Compounds.

I - 3289
II - 3403
III - 3413
IV - 3882
V - 5147

Geiger Counter Technique for X-Ray Diffraction.

I - 2235
II - 2246
III - 2434
IV - 2517
V - 2681

Series Report

High Resolution Investigation of the
Relative Spectral Attenuation
Coefficients of Water.

I - 5642

High Temperature Oxidation of
Iron-Chromium Binary Alloys in
Water Vapor.

I - 5506

Hydrides and Borohydrides of Light
Elements. (Only part of this series became
NRL reports.)

26 - 3107
28 - 3208

Hydrogen Overpotential.

I - 5596
II - 5597

Ideal Limiting.

I - 5683
II - 5684

Ignition Studies.

I - 3859
II - 4202
III - 4346
IV - 4476
V - 5437
VI - 5566

Investigation of Cuprous Oxide Anti-Fouling
Paint.

I - 2591
II - 2922

Investigation of Dehumidifying Agents for
Submarines.

I - 1234
II - 1277

An Investigation of Electrode Processes
by Microscopy.

I - 5679

An Investigation of High-Resolution Radar
Phenomena.

I - 3501
II - 3568

Investigation of Silicone Polymer Fluids.

I - 2101
II - 2227
III - 2481
IV - 2499
V - 2530
VI - 2681
VII - 3118
VIII - 3192

Laboratory Evaluation of Hydraulic Oils.

I - 2165
II - 2308

Laboratory Studies of Mustard Decontamina-
tion by Steam.

I - 3590
II - 3694

The Lead Calcium Battery.

I - 5693

Light Armor Investigation.

I - 1173
II - 1429
III - 1438
IV - 1440
V - 1540
VI - 1591
VII - 1600
VIII - 1745
IX - 1778
X - 1892
XI - 2068
XII - 3636
XIII - 3670

Light Scattering in Fuels.

I - 4422

Liquid Thermal Diffusion Research.

I - 1977
II - 1981
III - 2047
IV - 2127

Marine Borer Control.

I - 3940
II - 4409
III - 4411
IV - 4672
V - 4822
VI - 4829
VII - 4851
VIII - 5314
IX - 5363
X - 5505

Materials Suitable for Sound Applications.

I - 4191

Mathematical Model for Evaluating Tactical
Decisions in Fleet Air Defense Games.

I - 5476

Measurement of Air Flow Through an
Aircraft Generator During Flight.

I - 3961
II - 4048
III - 4355
IV - 4445

The Measurement of Fluctuating Radiation
Components in the Sky and Atmosphere.

I - 3462
II - 3710

Measurement of Vibration on the USS
Franklin D. Roosevelt CVB 42.

I - 2933
II - 2937

Mechanical and Ballistic Properties of Low
Carbon Iron Manganese Alloys. (Title
Varies.)

I - 1785
II - 2020
III - 2328

A Metallurgical Evaluation of Refractory
Compounds Containing Molten Titanium.

I - 4447
II - 4467
III - 4478

Method of Estimation of the Aromaticity
of Aviation Gasolines.

I - 1872
II - 2096

Naval Research Laboratory

The Microthermal Structure of the Ocean Near Key West, Florida

I - 3392
II - 3444

Minitrack.

1 - 4995
2 - 5035
3 - 5055
4 - 5065
5 - 5198
6 - 5217
7 - 5215
8 - 5227

Moravian Green Anti-Fouling Paint.

I - 1299
II - 1321

Naval Research Laboratory Research Reactor.

I - 4668
II - 4729
III - 5025
IV - 5077
V - 5142
VI - 5184
VII - 5189
VIII - 5196
IX - 5213
X - 5389

A New Definition of a Fluid.

I - 3457
II - 3553

Noise in Tracking Radars.

I - 3759
II - 3929

NRL Shock-Fracture Test for Welded Joints.

I - 2050
II - 2163
III - 2306
IV - 2453

Oleophobic Monolayers.

I - 2206
II - 3267
III - 3674

Oxygen Source Materials.

I - 1244
II - 1291
III - 1568
IV - 1612
V - 1619
VI - 1632
VII - 1691
VIII - 1702
IX - 1701
X - 1931
XI - 1904
XII - 1999
XII Supp - 1999A
XIII - 2026
XIV - 2106
XV - 2153
XVI - 2334
XVII - 2487
XVIII - 2665

Panoramic Receiver CW Thresholds.

1 - 3336
2 - 3496

Partially Fluorinated Esters and Ethers as Temperature Stable Liquids.

I - 4429
II - 4493

Permanent-Magnet Generators.

I - 4912
II - 4931
III - 5090

Phosphate Coatings on Steel.

I - 3481
II - 3510

Photodegradation of High Polymers.

I - 5518
II - 5591

Physical Optics of Metal Plate Media.

I - 3534
II - 3599

Physical Properties of Monolayers Adsorbed at the Solid/Air Interface.

I - 4943
II - 4946
III - 5053

Plywood Finishing Systems Applicable to Airplanes and Gliders. (Title varies.)

I - 2030
II - 2188
III - 2311
IV - 2462

Portable Precision Frequency Meter.

I - 3527
II - 4070
III - 4111

Precipitation Static Problem.

I - 1919
II - 2025
III - 2243
IV - 2271
V - 2280
VI - 2281
VII - 2309
Concluding Report - 3199

Series Report

Preparation and Properties of Solidified Gasoline.

I - 1346
II - 1390
III - 1578

Preparation of Silicone Compounds for Use in High Temperature Organic Finishes.

I - 3870
II - 3994

Probing into Cool Flames.

I - 4249
II - 4651

Projectile Shock on Aircraft Armor Supports.

I - 2331
II - 2496
Final - 2815

Propeller Shaft Torque Fluctuations in the U.S. Tug WAHTAH.

I - 1706
II - 1780

Properties of Paints as Affected by Ultraviolet Radiation in a Vacuum.

I - 5503

Prophylaxis and Treatment of Burns Caused by Chemical Warfare Agents.

1 - 1898
2 - 1899
3 - 1953

Protection of Refractory Metals for High Temperature Service.

1 - 5550
2 - 5581
3 - 5620
4 - 5643

Psychological Studies of Tracking Behavior.

I - 3248
II - 3249
III - 3850
IV - 3872

Pulse-Jet Engine.

1 - 2650
2 - 2730
3 - 2859
4 - 3064
5 - 3252
6 - 3537
7 - 3741
8 - 3742

Quarterly Progress Report on the Measurement of the Physical and Chemical Properties of the Sodium-Potassium Alloy.

I - 3010
II - 3057
III - 3105
IV - 3152
V - 3201
VI - 3243
VII - 3287
VIII - 3330
IX - 3383

Rate Measurement of Marine Chronometers.

I - 4524
II - 4568
III - 4645
IV - 4716
V - 4812

Reactions of Organophosphorus Acids with Isocyanates.

I - 5360
II - 5365

Naval Research Laboratory

Reflection Reducing Coatings for Glass and Transparent Plastic Surfaces.

I - 1937
II - 2008

Replacement of Tung Oil in Resins to be Used in Navy Aeronautical Finish Materials.

I - 2141
II - 2274

Research on the Weldability of Iron Alloys.

I - 1258
II - 1303
III - 1382
Summary - 1419

Resistance of Woods to Biological Deterioration in Tropical Environments.

I - 5673

Sabotage Agents for Use in Lubricants and Fuels for Internal Combustion Engines.

I - 1902
II - 1954

Scale Model Tests for High Pressure, High-Temperature Steam Piping.

I - 1884
II - 1749
III - 1829

The Separation of Water From Fuels.

I - 5685

Ship Bottom Paint Systems.

1 - 2763
2 - 2928
3 - 2946
4 - Cancelled
5 - 3011

Shock and Vibration Bulletin.

1 - Unnumbered
2 - 3077
3 - 3106
4 - 3131
5 - 3181
6 - 3200
7 - 3229
8 - 3276
9 - 3290
10 - 3377
11 - 3440
12 and after
- Not in NRL Series

Shock and Vibration Instrumentation and Measurements.

I - 2267
II - 2645

Shock Design of Shipboard Equipment.

I - 5545

The Silver Oxide - Zinc Alkaline Primary Cell.

I - 3478
II - 3876
III - 4089
IV - 4885
V - 5635

Silver-Silver Oxide Electrode.

I - 5561

Size Effect in Slow Bend Tests of Ni-Cr Steel.

I - Not in NRL Series
II - 2245
III - 2296

Solidification Studies on Cast Steel.

I - 1026
II - 1108

Spreading Agents for Cleaning Water Surfaces of Oil Films.

I - 1930
II - 1984

Spreading Characteristics of Lubricating Oils.

I - 1595
II - 1621
III - 1640

The Spreading of Liquids on Low-Energy Surfaces.

I - 3651
II - 3845
III - 3950

Stabilization of Silicone Lubricating Liquids Above 200 C.

1 - 5457
2 - 5474

Standard Source of Radiation for Radiac Detectors.

I - 4394
II - 5462

Studies of Grid Alloys for Submarine Storage Batteries.

I - 1052
II - 1121

Studies on the Mechanisms of the Action of Wash Primers.

I - 4605

Study of Antifouling Compositions for Protection of Flying Boat Hull Bottoms.

I - 1815
II - 2269

Study of Aromatic Fuel Resistant Tank Lining Compound. (Title varies.)

I - 1895
II - 2053

Surface Activity of Fluorinated Organic Compounds at Organic-Liquid/Air Interfaces.

I - 5244
II - 5364
III - 5401

Surface Chemical Methods of Displacing Water and/or Oils and Salvaging Flooded Equipment.

I - 5606
II - 5680

Series Report

Survey of Thermal Radiation from Surface Vessels.

I - 2764
II - 2954
III - 3060

A System Using Phase-Modulation Transmission and Single-Sideband Reception for Long-Range Communication.

I - 3884
II - 4007

Tautomerism in Phosphorus Chemistry.

I - 5242
II - 5335
III - 5393

Test on Insulating Material Submitted by Hartford Fire Insurance Co.

I - 2051
II - 2112

Theoretical Design of Primary and Secondary Cells.

I - 5211
II - 5212

Thermal Evaluation of Formvar Resin

I - 2915
II - 3191
III - 3397

Thermodynamic Properties of Face-Centered Cubic Lattices.

I - 5252

Transformation Studies of Substitute Special Treatment Steels.

I - 4650

Transmission, Reflection and Guiding of an Exponential Pulse by a Steel Plate in Water.

I - 2563
II - 2564

Tropical Performances of Fungicidal Coatings.

I - 3781
II - 4563

University of North Carolina, Armor Fracture Size Effect Study, see Armor Fracture Size Effect Study.

Use of Chaplets in Steel Castings.

I - 1561
II - 1609

Use of Chemical Materials as Shark Repellants.

I - 2230
Final - 2373

Use of Trimethoxyboroxine for the Extinguishment of Metal Fires.

I - 4933

Vaporator.

I - 5361

Weldability Tests of High Tensile Steel.

I - 2237
II - 2277
III - 2325

<p style="text-align: center;">UNCLASSIFIED</p> <p>Naval Research Laboratory. Report 5700B. BIBLIOGRAPHY OF UNCLASSIFIED NRL FORMAL REPORTS, NUMBERS 1000 TO 5700. 145 pp., July 1962.</p> <p>Section 1 is a listing, by number, of unclassified NRL formal reports, giving the title, authors, and date of all reports from 1000 to 5700. Section 2 is an alphabetical index of authors, giving the numbers of reports only. Section 3 is a listing of reports issued in series.</p> <p>Those reports cataloged by the Office of Technical Services, Department of Commerce carry a PB number and price.</p> <p style="text-align: center;">UNCLASSIFIED</p>	<p>1. Scientific reports - Bibliography</p> <p>2. Naval research - Bibliography</p>	<p style="text-align: center;">UNCLASSIFIED</p> <p>Naval Research Laboratory. Report 5700B. BIBLIOGRAPHY OF UNCLASSIFIED NRL FORMAL REPORTS, NUMBERS 1000 TO 5700. 145 pp., July 1962.</p> <p>Section 1 is a listing, by number, of unclassified NRL formal reports, giving the title, authors, and date of all reports from 1000 to 5700. Section 2 is an alphabetical index of authors, giving the numbers of reports only. Section 3 is a listing of reports issued in series.</p> <p>Those reports cataloged by the Office of Technical Services, Department of Commerce carry a PB number and price.</p> <p style="text-align: center;">UNCLASSIFIED</p>	<p>1. Scientific reports - Bibliography</p> <p>2. Naval research - Bibliography</p>
<p style="text-align: center;">UNCLASSIFIED</p> <p>Naval Research Laboratory. Report 5700B. BIBLIOGRAPHY OF UNCLASSIFIED NRL FORMAL REPORTS, NUMBERS 1000 TO 5700. 145 pp., July 1962.</p> <p>Section 1 is a listing, by number, of unclassified NRL formal reports, giving the title, authors, and date of all reports from 1000 to 5700. Section 2 is an alphabetical index of authors, giving the numbers of reports only. Section 3 is a listing of reports issued in series.</p> <p>Those reports cataloged by the Office of Technical Services, Department of Commerce carry a PB number and price.</p> <p style="text-align: center;">UNCLASSIFIED</p>	<p>1. Scientific reports - Bibliography</p> <p>2. Naval research - Bibliography</p>	<p style="text-align: center;">UNCLASSIFIED</p> <p>Naval Research Laboratory. Report 5700B. BIBLIOGRAPHY OF UNCLASSIFIED NRL FORMAL REPORTS, NUMBERS 1000 TO 5700. 145 pp., July 1962.</p> <p>Section 1 is a listing, by number, of unclassified NRL formal reports, giving the title, authors, and date of all reports from 1000 to 5700. Section 2 is an alphabetical index of authors, giving the numbers of reports only. Section 3 is a listing of reports issued in series.</p> <p>Those reports cataloged by the Office of Technical Services, Department of Commerce carry a PB number and price.</p> <p style="text-align: center;">UNCLASSIFIED</p>	<p>1. Scientific reports - Bibliography</p> <p>2. Naval research - Bibliography</p>