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FOREWORD

Approximately 2,400 formal scientific reports have been published and distributed to date by the Naval Research Laboratory. These reports, written by some 1,000 scientists during the past 15 years, cover almost all the phases of research undertaken at NRL and include subjects in the fields of research of chemistry, electricity, metallurgy, optics, physics, sound, radio, and radar. It is believed that a formal listing, or bibliography, of these documents will be of great value to the Laboratory, the Office of Naval Research, and to the entire Department of Defense for it is only through the publication of reports that a research organization can readily and intelligently disseminate the knowledge gained through its activities.

The term "Formal Report" used in the title of the Bibliography serves to distinguish the numbered reports listed herein from NRL letter reports which have a limited distribution and serve a somewhat temporary purpose.

This Bibliography is divided into three Sections, Sections 1 and 2 constituting Volume I, and Section 3 constituting Volume II. Section 1 lists all the reports in numerical order and provides the titles, authors, and dates of preparation; Section 2 is an author indes. Section 3 comprises a detailed subject index to the reports and repeats the full bibliographical data of Section 1.

Two editions are published, Report 3400A being Secret and listing all reports except "AEC Restricted," and Report 3400B being Confidential and listing all reports except those classified "AEC Restricted," and "Secret."

In 1933 the first formal report was issued and arbitrarily assigned a serial number 1000. For the most part, these serial numbers are preceded by a letter which originally designated the initiating Division within the Laboratory, but, beginning 1 July 1948, indicates the broad field of research under which the report is classified. The absence of a letter designation is an indication that the report is administrative in nature. These letter designations follow:

Designating Letter	Field of Research
C	Chemistry
E	Electricity
F	Mechanics
M	Metallurgy
H	Nucleonics
N	Optics
P	Physics
R	Radio
S	Sound

The Bibliography is brought to a temporary conclusion with the listing of NRL Report R-3399 but will be kept current by published changes or revisions. Starting with the report to be serially numbered 3500, designating letters will be omitted; the serial number alone will serve to identify the report.

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H-1000 U Study of the Behavior of Spectral Lines of Sodium in the Combustion of Fuel Oils, by L. H. Dawson. Oct. 1933.

R-1001 Examination and Test of RCA Victor Co. Model CXC H. F. Direction Finder, Serial No. 2, by S. A. Greenleaf. Oct. 1933.

R-1002 U Test of TBA-1A Transmitter Including Comparative Tests of TBA Transmitter, by O. C. Dresser. Oct. 1933.

H-1003 U The Polarization of Light at Sea, by E. O. Hulburt. Nov. 1933.

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P-1005 U Enclosed Submarine Storage Battery Cell Problem, by H. D. Crockford. Nov. 1933.

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, by R. B. Owens. Nov. 1933.

R-1007 U Test of "Agastat" Time Delay Relay and Comparison with Type "PQ" Time Delay Relay, by R. B. Meyer and O. C. Dresser. Nov. 1933.

R-1008 U Tests of the Simon Direction and Distance Finder, by M. H. Schrenk. Dec. 1933.

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R-1010 U Test of Crystal Holders, submitted by Radio Research Co. and Investigation of TBA Transmitter Crystal Circuit, by O. C. Dresser. Dec. 1933.

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H-1015 U Supplement to Report on Photoelastic Test of Bureau of Construction and Repair Weld Models 54a, 54b, 54c, and 56g, by R. B. Carleton. Jan. 1934.

M-1016 U Report on Studies of European Molding Sands, by R. A. Gezelius. Jan. 1934.

H-1017 C Signalling and Detection with Ultra-Violet and Infra-Red Radiation, by E. O. Hulburt. Jan. 1934.

R-1018 U Tests to Determine Cause of Failure of Voltmeters Used in Model GI Receivers, by J. J. MacGregor and M. H. Schrenk. Jan. 1934.

P-1019 U The Carbon and Hydrogen Content of the Fuel Oils in Storage at the Naval Research Laboratory, by P. Borgstrom and R. D. Norton. Jan. 1934.

R-1020 U Test of Precision Thermometer, and Instrument Co. Thermostats, by R. B. Owens. Jan. 1934.

P-1021 C Progress on Anti-Fouling Coatings, by W. Rosett. Jan. 1934.

H-1022 U Photography with Infra-Red Plates, by E. O. Hulburt. Feb. 1934.

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R-1024 U Test of RCA-Victor Co. Test Oscillator Model TMV 97-A, Serial #785, Range 150-15000 Kc, by S. A. Greenleaf. Feb. 1934.

R-1025 U Test of "Agastat" Time Delay Relay, by R. B. Meyer and R. A. Gordon. Feb. 1934.

M-1026 U Solidification Studies (Steel Castings Research), by C. W. Briggs and R. A. Gezelius. Feb. 1934.

R-1027 U Test of Models RAA and RAB Receiving Equipments (Audio System), by J. H. Gough. Feb. 1934.

R-1028 U Test of Models RAA and RAB Receiving Equipments (RF and IF Amplifier and Detector Circuits of the Model RAA), by E. N. Dingley, Jr. Feb. 1934.

M-1029 U Studies of Internal Friction and Vibration Fatigue, by R. H. Canfield. Feb. 1934.

R-1030 U Tests of Model RAA and RAB Receiving Equipment (RF and IF Amplifier and Detector Circuits of the Model RAB), by W. B. Burgess. March 1934.

P-1031 U Cooperative Fuel Testing, B, by P. Borgstrom. Feb. 1934.

H-1032 U Report of the Radio Section of the 1932-1933 American Polar Year Expedition, by H. B. Maris. March 1934.

P-1033 U Water Repellant Coatings - Tests of Water Repellant Materials for Coating the Interior of Submarine Main Battery Ventilation Ducts, by E. G. Lunn. March 1934.

R-1034 U Detector Characteristics, by E. N. Dingley, Jr. March 1934.

R-1035 U Pre-Selector Circuits, by E. N. Dingley, Jr. March 1934.

H-1036 C The Problem of Visibility, by E. O. Hulburt. March 1934.

R-1037 U Key Clicks, by E. N. Dingley, Jr. March 1934.

R-1038 U Test of Model RG-3 Radio Receiving Equipment - Range 1,000 to 20,000 Kc, by S. A. Greenleaf. March 1934.

R-1039 U Test of Frequency Control Device, by L. C. Young. March 1934.

R-1040 U Tests of Model TBF Transmitting Equipment, Serial Nos. 32, 34, 35, by R. B. Meyer and O. C. Dresser. March 1934.

R-1041 U Tests of the Resubmitted Preliminary Model LD-1 Combined Heterodyne Frequency Meter and Crystal Controlled Calibrator, Range 100-5000 Kcs for a-c Operation, by R. B. Owens. March 1934.

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R-1048 U Results of Antenna Measurements Using Model OA Equipment and Substitution Method, by R. S. Baldwin. April 1934.

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R-1050 U Tests of the Experimental Crocker-Wheeler Alternator and Modified Model GI Transmitter, by M. H. Schrenk. May 1934.

R-1051 U Tests of Model TAZ-1 Transmitting Equipment, Serial No. 3, by R. B. Meyer and O. C. Dresser. May 1934.

M-1052 U Studies of Grid Alloys for Submarine Storage Batteries, by R. H. Canfield and H. E. Kaiser. May 1934.

R-1053 U Test of the Hammarlund Comet "Pro" Receiver, Serial No. 7448, Range 1,200-20,000 Kcs, by S. A. Greenleaf. May 1934.

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R-1055 U Test of the Model TAV-2 Equipment, Section 1: Transmitter, Generator, Antenna, and Transportation Equipment, by C. H. Williams and R. B. Meyer. May 1934.

A-1056 U Tests of Model "GO" Patrol Plane Transmitting Equipment, by M. H. Schrenk. May 1934.

R-1057 U Test of Wire-Wound Resistors of Cement and Varnished Types, by R. B. Owens. June 1934.

R-1058 U Test of Receiver Unit Only of the Model TAV-2 Equipment, Section 2: Balance of Eq. Covered in Report R-1055, by S. A. Greenleaf. June 1934.

R-1059 U Test of Preliminary Model LD-2 Combined Heterodyne Frequency Meter and Crystal Controlled Calibrator, by R. B. Owens. June 1934.

H-1060 U Signalling and Detection with Ultra-Violet and Infra-Red Radiation, Supplement to H-1017, by R. Gunn. June 1934.

P-1061 U Storage Batteries WLH-45 and WLH-29, Characteristics of, at 1280 Specific Gravity, by E. G. Lunn June 1934.

R-1062 U Test of Weston Test Oscillator Model 694, Serial 114, Range 113 to 3120 Kc, by S. A. Greenleaf. July 1934.

R-1063 U Test of Models RAA and RAB Receiving Equipments (Audio System) (Addenda to Report R-1027), by J. H. Gough. July 1934.

P-1064 U Fire Extinguishers; Preliminary Study of Foam Fire Extinguishers for Flight Decks of Aircraft Carriers, by E. G. Lunn. July 1934.

R-1065 U Effects of High Frequency Electric Fields of High Field Intensities Upon Radio Frequency Insulating Materials, by J. D. Wallace and A. H. Moore, Jr. July 1934.

R-1066 U Test of Head Telephone Receivers, by R. S. Baldwin. August 1934.

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R-1068 U Test of Model TAJ-4 Transmitting Equipment, by J. C. Link and R. B. Meyer. Sept. 1934.

R-1069 U Test of Model TBF-1 Transmitting Equipment, by R. B. Meyer and O. C. Dresser. Sept. 1934.

B-1070 U Test of Low Pressure Alarm Contact Maker for Circulating Oil System, submitted by Butte Electric & Mfg. Co., by W. B. Roberts. Sept. 1934.

P-1071 U Researches on the Physical Chemistry of the Lead-Acid Storage Cell, by H. S. Harned and W. J. Hamer. Sept. 1934.

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B-1073 U Test of Relay for Two Filament Running Light Lamps, by W. B. Roberts. Sept. 1934.

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A-1077 U Tests of Type NES-2 Radio Homing Device, by M. H. Schrenk. Oct. 1934.

S-1078 U Test of Model QB Underwater Sound Equipment of the USS CUTTLEFISH, by H. C. Hayes. Oct. 1934.

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P-1080 C Submarine Air Purification #3, by P. Borgstrom. Oct. 1934.

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B-1082 U Test of Instantaneous Type Shaft Revolution Indicator System, submitted by Pitometer Log Corp., by J. R. Coomes, J. S. Bryant and W. B. Roberts. Oct. 1934.

R-1083 U Test of Weston Model 301 Volume Indicator, by S. A. Greenleaf. Oct. 1934.

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R-1088 U Tests of Cement-Coated, Wire-Wound Resistors, submitted by International Resistance Co., by W. E. Bower. Oct. 1934.

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R-1091 U Tests of Stackpole, S. S. White and Other Resistor Units, by R. C [illegible] Guthrie, Jr. Nov. 1[illegible]

1092 U Test on Controller and Pulsators for Truck and Screened Speed Lights, mfd. by Navy Yard, Portsmouth, N. H., by J. S. Bryant and W. B. Roberts. Nov. 1934.

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B-1095 U Tests of Bi-Metallic Thermostats, submitted by Walter Kidde and Co., by W. B. Roberts. Nov. 1934.

1096 U Telephone Extension Relay, submitted by Automatic Electric Co., by J. S. Bryant and W. B. Roberts. Nov. 1934.

H-1097 C Sky Camouflage of Naval Airplanes, by C. E. Bittinger and E. O. Hulburt. Nov. 1934.

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R-1099 U Test on Mercury-in-Glass Thermostats, by W. E. Bower. Dec. 1934.

P-1100 U Submarine Storage Batteries Relation of Current and Voltage During the Gassing Phase of Charge, by E. G. Lunn. Nov. 1934.

B-1101 U Metal, Vacuum Type Relay, submitted by General Electric Co., by J. S. Bryant and W. B. Roberts. Dec. 1934.

R-1102 U Test of Model QA Underwater Sound Equipment, submitted by Audio Research, Inc., by R. H. Herrick and S. A. Greenleaf. Dec. 1934.

A-1103 U Investigation of Model MJ Aircraft Radio Receiver, by H. F. Hastings and J. J. MacGregor. Dec. 1934.

A-1104 U Tests of Model GM Transmitting Equipment, by G. C. Schleter. Dec. 1934.

A-1105 U Test of Experimental Radio Direction Finder, submitted by Pioneer Instrument Co., by G. C. Schleter and M. H. Schrenk. Dec. 1934.

B-1106 U Constant Frequency Control Unit for Instantaneous Shaft Revolution System, manufactured and submitted by Pitometer Log Corp., by J. R. Coomes, W. B. Roberts and J. S. Bryant. Dec. 1934.

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M-1108 U Solidification Studies on Cast Steel, II, by C. W. Briggs and R. A. Gezelius. Jan. 1935.

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P-1119 U Conversion of Viscosity Determinations Using the Saybolt Viscosimeter with Universal, Furol, and Asphalt Tubes, by P. Borgstrom. Jan. 1935.

R-1120 U Tests of Weston Model Replacement Voltmeter for Models RAA and RAB Receivers, by R. B. Owens. Jan. 1935.

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R-1122 U Electrical Characteristics and Performance of Rectifier Unit Type CAY-20018 of the Model TBK Radio Transmitter, by J. T. Fetsch. Feb. 1935.

B-1123 U Test of 12" Single Stroke, 115 V., AC, 60 Cycle Bell, submitted by C. Cory Corp., by J. S. Bryant and W. B. Roberts. Feb. 1935.

B-1124 U Test of Relays for Operation of Pilot Indicator Lamps in Truck and Screened Speed Light Controllers, submitted by Automatic Electric Co., by W. B. Roberts. Feb. 1935.

B-1125 U Test of Horns, Type H, submitted by Federal Electric Co., by J. S. Bryant and W. B. Roberts. Feb. 1935.

P-1126 U Submarine Storage Batteries; Emergency Analysis for Chlorine Content of Electrolyte, by L. Singer and E. G. Lunn. Feb. 1935.

P-1127 U Reproductibility of Viscosity Determinations at 77°F, by W. E. Whybrew and P. Borgstrom. March 1935.

R-1128 U Repair of Model OA Antenna Measuring Equipment Type 4360, Serial #1, assigned to NYD, Pearl Harbor, by R. S. Baldwin. March 1935.

B-1129 U Test of Annunciator Equipment and Buzzer, submitted by Chas. Cory Corp., by W. B. Roberts. March 1935.

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B-1133 U Test on Telegraph Key and Sounder Equipment, submitted by J. H. Bunnell Co., by W. B. Roberts. March 1935.

R-1134 U Test of Models DO, DO-1, DO-2, and DO-3 Radio Direction Finder Equipments, by J. H. Gough. March 1935.

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R-1138 U Test of Model LJ Aircraft Crystal Frequency Indicator CHS-74015, Serial #11, by H. F. Hastings. March 1935.

R-1139 U Test of Weston Decibel Meters, Model 301, by S. A. Greenleaf. March 1935.

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R-1149 C Present Day Technique for Radio Transmission and Reception in the Micro-Ray Frequency Band (300-3000 Mcs.) with Suggested Applications for Naval Purposes, by W. J. Cahill. April 1935.

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R-1151 U Test of Submarine Loop Antenna Cable, by R. B. Owens. April 1935.

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R-1153 U Test of Formica Insulation, by R. B. Owens. May 1935.

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R-1155 U Test of Revised Model QA Underwater Sound Equipment, submitted by Audio Research, Inc., by J. H. Gough and S. A. Greenleaf. May 1935.

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R-1157 U Life Tests on Type 864 Triodes, by C. H. Williams and J. T. Fetsch. May 1935.

B-1158 U Test on General Alarm Contact Maker, submitted by Chas. Cory Corp., by J. S. Bryant and W. B. Roberts. May 1935.

H-1159 U A Photoelastic Investigation of the Stress Concentrations in Longitudinal Sections of Corrugated Pipe, for the Naval Experiment Station, Annapolis, by J. A. Plugge. June 1935.

P-1160 U Emulsion Formation of the "A" Series of Fuel Oils, by O. I. Lewis and P. Borgstrom. June 1935.

R-1161 U Test of Model LJ-1 Aircraft Frequency Indicators, Serial Nos. S-4 and S-5, by H. E. Hastings. June 1935.

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R-1163 U The Ionosphere, Skip Distances of Radio Waves and the Propagation of Microwaves, by E. O. Hulburt. June 1935.

R-1164 U Test of General Electric Recognition Signal System, by R. M. Page, Jr. May 1935.

R-1165 U Electrical Performance of Multi-Electrode Mercury Vapor Rectifier Tube in Double Three Phase Circuit Type W-224, by J. T. Fetsch. May 1935.

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B-1168 U Test on Electrical Solenoid Valves and Air Horn, submitted by Clark Cooper Co., for Submarines SS176 and SS178, by W. B. Roberts and J. R. Coomes. June 1935.

R-1169 U Test of Special Western Electric Light Weight Head Telephone Receivers, by R. S. Baldwin. June 1935.

B-1170 U Test of Thermostats, Mercurial Type, submitted by the H. B. Instrument Co., by W. B. Roberts. June 1935.

B-1171 U Test on Wind Intensity and Wind Direction Indicator System, submitted by Julian P. Friez and Sons, Inc., by J. R. Coomes, J. S. Bryant and W. B. Roberts. July 1935.

R-1172 U Test of Weston Model 506 Tropically Treated Voltmeter Multipliers, by R. B. Guthrie. July 1935.

O-1173 U Light Armor Investigation; Survey of Literature, by D. L. Hay. July 1935.

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R-1177 U Routine Test of Thermostats, submitted by Precision, Thermometer and Instrument Co., by R. B Owens. July 1935.

R-1178 U Retest of Preliminary Model of Class IV Radio Receiving Equipment Consisting of One RAG-1 Receiving Equipment, One RAH-1 Receiving Equipment and One Type CHS-23067 Control Unit, by J. H. Gough, S. A. Greenleaf and G. A. Lyle. July 1935.

R-1179 U Electrical Performance and Characteristics of Cathanode Mercury Vapor Triodes, by J. T. Fetsch. July 1935.

R-1180 U Tests of Model AVR-6 Aircraft Receiver Equipment, by G. C. Schleter. July 1935.

B-1181 U Test of Lubricating Oil Low Pressure Alarm Contact Maker, submitted by Clark Cooper Co., by W. B. Roberts. August 1935.

M-1182 U Studies on Solidification and Contraction in Steel Castings: The Rate of Skin Formation, by C. W. Briggs and R. A. Gezelius. August 1935.

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R-1186 U Test of Model TBN-2 Radio Transmitting Equipment, submitted by Westinghouse Electric and Mfg. Co., by R. B. Meyer. August 1935.

R-1187 U Measurement of Characteristic Impedance and Attenuation of Twisted Pair Transmission Lines, by R. A. Gordon. August 1935.

M-1188 U Investigation of Electrolysis of Water, I, by P. Hausmeister. August 1935.

P-1189 U Submarine Storage Batteries: Stratification of Electrolyte, by E. G. Lunn. August 1935.

B-1190 U Test of Fire Alarm Thermostat, submitted by Julian P. Friez & Sons, by W. B. Roberts. Sept. 1935.

R-1191 U Test of Ceramic (Porcelain) Insulating Materials, submitted by Porcelain Products, Inc., by R. B. Owens. Sept. 1935.

R-1192 U Test of Thermometers, submitted by Taylor Instrument Co., by R. B. Owens. Sept. 1935.

B-1193 U Test on Incandescent Lamps, 6-8 Volts, 1CP, G-3½ Bulb "Mazda 51," submitted by G. E. Co., by W. B. Roberts. Sept. 1935.

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O-2047 S

R-2048 U Effect of Painting Type 327A and 227A Transmitting Tubes for Blackout Purposes, by R. Deutsch, M. F. Distad and R. C. Guthrie. March 1943.

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P-2060 U Variation of Properties of Glycerol-Water Recoil Fluids O. S. 1324 and O. D. No. 1914 with Temperature, by C. M. Murphy, Jr. and J. M. French. May 1943.

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H-2069 S

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R-2079 U General Facility and Constructional Requirements for the Model, DAJ Direction Finder Installation, by M. K. Goldstein. May 1943.

B-2080 U Test on Annunicators - Four Drop, submitted by Edwards and Co., by D. T. Scuderi. July 1943.

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R-2089 R Tests of the Mark 11 Fire Control Radar Equipment - Preproduction Model No. 2, submitted by General Electric Co., by J. P. Hagen, R. B. Meyer and T. McL. Davis. June 1943.

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B-2104 U Test on Bells, Type B-1 and B-2, submitted by Federal Electric Co., Inc., by D. T. Scuderi. July 1943.

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M-2123 U Summary Report on the Heat Treatment of Stockless Anchors, by K. L. Clark. July 1943.

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O-2127 S

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R-2148 U Test of Insulating Material #302, submitted by Globe Union Inc., by J. E. Martin. Aug. 1943.

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B-2151 U Test of Thermacote Protective Coating, submitted by Thermacote Co., by F. M. Holcomb, Jr. Sept. 1943.

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R-2161 U Multi-Engine Synchronizer for Aircraft, by K. L. Curtis and L. R. Philpott. Aug. 1943.

S-2162 S

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B-2164 U Test of Transformer - Type GF - 200 VA, submitted by Westinghouse Electric and Mfg. Co., by F. M. Holcomb, Jr. and G. Pida. Oct. 1943.

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B-2167 U Test on Horns, Types H-3 and H-4, submitted by Edwards and Co., Inc., by J. S. Bryant. Oct. 1943.

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B-2169 Cancelled.

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S-2179 U Hydrophone Calibration by Explosion Waves, by J. L. Carter and M. F. M. Osborne. (Undated).

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P-2185 U Protective Coatings for Magnesium Alloys, by W. L. Clark, III, and J. K. Appeldoorn. Nov. 1943.

R-2186 U Test of Model XBZ (YN) Radio Transmitting Equipment, by R. W. Hayward, Jr. Nov. 1943.

R-2187 R Jamming Tests at Casco Bay, by T. H. Chambers and L. R. Philpott. Dec. 1943.

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B-2189 Cancelled.

R-2190 U An Ultra-High Frequency Aircraft Receiver Using an Electronic Power Supply, by W. R. Faust. Nov. 1943.

O-2191 U Statistical Effects in the Testing of Materials, by A. E. Ruark. Nov. 1943.

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O-2209 U Liquid Filled Seismic Type Velocity Meter, by P. S. Symonds and I. Vigness. Dec. 1943.

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H-2214 U Exposure Meter for Radiography, III, Characteristics of Radiation from One Million Volt X-Ray Generator, by H. Friedman and E. der Mateosian. Jan. 1944.

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O-2243 R Precipitation Static, III, by R. Gunn. Feb. 1944.

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H-2266 S

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