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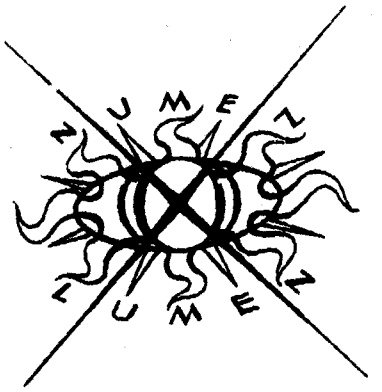

MATHEMATICS RESEARCH CENTER

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936

AR 70-31 Unclassified

Security Classification

DOCUMENT CONTROL DATA - R & D

(Security classification of title, body of abstract and indexing annotation must be entered when the overall report is classified)

1. ORIGINATING ACTIVITY (Corporate author) Mathematics Research Center, University of Wisconsin, Madison, Wis. 53706	2a. REPORT SECURITY CLASSIFICATION Unclassified 2b. GROUP None

3. REPORT TITLE

A BIBLIOGRAPHY ON: "METHODS FOR SOLVING INTEGRAL EQUATIONS" – AUTHOR LISTING

4. DESCRIPTIVE NOTES (Type of report and inclusive dates)

Summary Report: no specific reporting period.

5. AUTHOR(S) (First name, middle initial, last name)

Ben Noble

6. REPORT DATE September 1971	7a. TOTAL NO. OF PAGES 226	7b. NO OF REFS none
8a. CONTRACT OR GRANT NO. Contract No. DA-31-124-ARO-D-462 b. PROJECT NO. None c. d.	9a. ORIGINATOR'S REPORT NUMBER(S) #1176 9b. OTHER REPORT NO(S) (Any other numbers that may be assigned this report) None	

10. DISTRIBUTION STATEMENT

Distribution of this document is unlimited.

11. SUPPLEMENTARY NOTES None	12. SPONSORING MILITARY ACTIVITY Army Research Office-Durham, N.C.

13. ABSTRACT

This bibliography is intended for the applied mathematician who wishes to locate references that will help him when solving integral equations. The scope is indicated by a list of subject headings. A listing by subject is available in a companion MRC Report #1176.

DD FORM 1 NOV 68 1473

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Contract No.: DA-31-124-ARO-D-462

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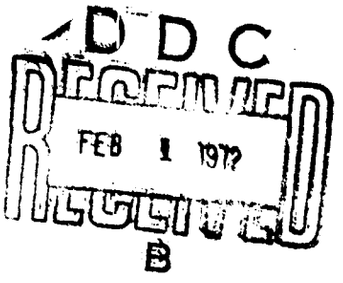
Ben Noble

MRC Technical Summary Report #1176
September 1971

Received August 8, 1971



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A BIBLIOGRAPHY ON: "METHODS FOR SOLVING INTEGRAL EQUATIONS" - AUTHOR LISTING

Ben Noble

This bibliography is intended primarily for the applied mathematician who wishes to locate references that may help him when solving integral equations. It has been compiled for a special purpose, namely the writing of a series of books on "Methods for Solving Integral Equations", and this has dictated the scope of the bibliography. The scope is indicated by the list of subject headings given below.

A listing by subject is available in a companion MRC Technical Summary Report #1177.

Articles are listed as follows:

Author, title of paper, journal, volume, year, pages, MR(Mathematical Reviews) number, ⟨subject classification(s)⟩.

We use the standard abbreviations of names of journals as given in the Index to Mathematical Reviews. Occasionally we abbreviate further, e.g. P. M. M. for Prikl. Mat. Meh., Q. A. M. for Quart. Appl. Math., and Z. A. M. M. for Z. Angew. Math. Mech. If we have not been able to locate the MR (Mathematical Reviews) number, we occasionally give an AMR(Applied Mechanics Reviews) or ZB(Zentralblatt) number.

My thanks go to the many people who have helped in this project. George Swan listed my files. Hing-Sum Hung searched for MR numbers and did most of the checking. The computer programs were developed by Verlyn Erickson.

Sponsored by the United States Army under Contract No.: DA-31-124-ARO-D-462.

The key-punching was done by Lynn Jaedecke, Jean Taylor and, above all, Douglas McNabb.

This project originated when I held an Air Force Grant AFOSR 69-1650, and I am grateful for the period of uninterrupted work that this afforded. Most of the project has been financed by the Mathematics Research Center.

This bibliography has been based on a card index assembled over a number of years, supplemented by a selection of relevant articles listed in Mathematical Reviews under the heading "Integral Equations". There are inevitably omissions in a bibliography of this size and scope. Lists of omissions, and bibliographies covering particular subject areas, would be gratefully received. Please send them to:

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TOPICS FOR BIBLIOGRAPHY ON INTEGRAL EQUATIONS

0-9 GENERAL

01.0 Textbooks on integral equations
02.0 Textbooks mentioning integral equations (also special topics)
03.0 Relevant textbooks on functional analysis
05.0 Review, expository, and survey articles
07.0 Of historical interest

10-19 VOLTERRA (see also 59.6, 64.0, 64.5, 68.0, 85.0, 106.0, 121.0, 122.0, 123.0)

10.0 Volterra, second kind - linear, theory (see also 12.0)
11.0 Volterra, second kind - nonlinear, theory (see also 12.5)
12.0 Volterra, second kind - linear, convolution (see also 64.0, 64.5, 106.0, 121.0)
12.5 Volterra, second kind - nonlinear, difference kernel
13.0 Volterra, second kind - numerical solution
14.0 Volterra, miscellaneous
14.6 Volterra, two variable limits
15.0 Volterra, first kind - theory (see also 64.0, 64.5, 68.0)
16.0 Volterra, first kind - numerical solution
17.0 Volterra, integrodifferential - theory
17.8 Volterra, integrodifferential - small parameter on derivative (Asymptotic theory)
18.0 Volterra, integrodifferential - numerical solution

20-39 FREDHOLM - BASIC THEORY

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21.0 Fredholm theory
21.2 Fredholm determinants
21.8 Resolvents
22.0 Miscellaneous Fredholm
24.0 Eigenvalues and eigenvectors for linear Fredholm (see also 25.0, 27.0, 119.8)
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24.9 Spectral theory for special operators
25.0 Linear singular Fredholm equations
26.0 Nonlinear Fredholm equations of Hammerstein type
27.0 Nonlinear Fredholm, eigenvalues, bifurcation
28.0 Nonlinear Fredholm other than Hammerstein
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66.2 Involving Bessel functions
66.7 Involving Legendre and Jacobi polynomials
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67.0 Dual and triple integral equations
67.1 Involving trigonometric functions
67.5 Involving Bessel functions
67.8 Miscellaneous
67.9 Triple integral equations
68.0 Fractional integration and related techniques
70.0 The Wiener-Hopf technique - theory
70.7 Approximate factorization
70.8 For systems of equations
70.9 In several dimensions
71.0 The Wiener-Hopf technique - applications (for linear simultaneous algebraic equations, see 35.7)
71.8 Approximate solutions
72.0 Topics related to Wiener-Hopf
72.1 Abstract or generalized Wiener-Hopf
72.5 Wiener-Hopf and the Hilbert problem
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73.0 Complex variable methods using the Plemelj formulae (Carleman-Muskhelishvili)
74.0 Complex variable methods other than 70.0 - 73.0 (see also 116.6, 116.8)
74.1 In two-dimensional elasticity
74.2 In axially-symmetric problems
74.5 The Hilbert problem
74.7 Functional equations and wedge problems
74.8 Kernel functions
74.9 In queuing problems
76.0 Fredholm, semi-infinite range, difference kernel ('Wiener-Hopf' - see also 70.0, 71.0)
77.0 Fredholm, finite range, difference kernel (see also 79.5)
77.7 Eigenvalues of Fredholm, finite range, difference kernel (see also 82.0)
78.0 Cauchy principal value equations
79.0 Other special Fredholm equations
79.5 The generalized Abel equation
81.0 Asymptotic methods for approximate solutions of Fredholm equations
82.0 The asymptotic behavior of eigenvalues and eigenfunctions (see also 85.0)
83.0 Special topics
83.3 Singular eigenfunction expansion methods of Case
83.6 Reduction of Fredholm to repeated Volterra

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  - 90.9 Equations other than Laplace and Poisson
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- 92.0 Mixed boundary-value problems in potential theory - axially-symmetric
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  - 92.5 Annulus
  - 92.6 Elliptic disk
  - 92.8 Spherical and spheroidal caps
  - 92.9 Involving cylinders
  - 94.3 Mixed problems for Tricomi's equation
  - 94.7 Torsion
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  - 95.5 High-frequency diffraction by smooth bodies
- 96.0 Acoustic and electromagnetic theory - diffraction by half-plane
  - 96.2 Low-frequency diffraction by strip
  - 96.5 High-frequency diffraction by strip
  - 96.7 Diffraction by wedges
  - 96.8 Pulse diffraction and related topics
- 97.0 Acoustic and electromagnetic waves - diffraction by disk
  - 97.5 High-frequency diffraction by disk
- 99.0 Waves in ducts and waveguides
- 101.0 Acoustics and electromagnetic theory - miscellaneous
- 102.0 Antennas
- 103.0 Elasticity, static, contact and crack problems
  - 103.1 Two-dimensional, smooth
  - 103.3 Two-dimensional, with friction
  - 103.4 Inclusion problems
  - 103.5 Elliptic disk
  - 103.6 Disk, smooth, half-space
  - 103.7 Disk, smooth, slab
  - 103.8 Disk, with friction
  - 103.9 Other geometries
- 104.0 Elasticity, static, other than 103.0 (for Torsion, see 94.7)
  - 104.2 Thin shells
  - 104.3 Thin plates with mixed boundary conditions
  - 104.5 Complex variable methods
  - 104.6 The end-problem
  - 104.9 Axially symmetric problems by complex variable methods
- 105.0 Elasticity - time dependent, basic boundary value problems
  - 105.5 Diffraction of elastic waves by smooth bodies
  - 105.6 Diffraction of elastic waves by strip, disk, etc.
  - 105.7 Torsional oscillations of half-space
  - 105.8 Pulses, crack propagation

106.0 Viscoelasticity, creep, and plasticity
107.0 Conformal mapping
108.0 Airfoils - mainly two-dimensional subsonic
  108.6 Airfoils, subsonic, general shape
  108.8 Airfoils, supersonic
109.0 Hydrofoils
110.0 Ships
111.0 Flow past convex bodies
112.0 Water waves - miscellaneous
  112.1 Water waves - finite amplitude
  112.5 Water waves - mixed boundary value problems
113.0 Fluids, other than 108.0 - 112.0
  113.5 Cavity flows and free stream lines
115.0 Mechanics and dynamics
116.0 Quantum mechanics - scattering
  116.1 Born series and modified Born series
  116.3 Variational methods in quantum scattering
  116.6 Analyticity properties in quantum scattering
  116.8 Dispersion relations, N/D equations, S-matrix, etc.
117.0 Quantum mechanics - miscellaneous
  117.1 Superconductivity
119.0 Radiative transfer and neutron transport
  119.2 The Boltzmann equation
  119.3 Integrodifferential equations for (see also 119.0)
  119.4 Milne's equation
  119.5 H and X-Y functions
  119.7 Invariant imbedding and related topics
  119.8 Method of Case
  119.9 Plasmas
120.0 Heat transfer - miscellaneous
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  120.5 Melting and moving boundaries
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121.0 Renewal equation and hereditary processes, branching
122.0 Queues, dams, and related stochastic processes, probability and statistics
123.0 Miscellaneous applications of Volterra equations
  123.2 Miscellaneous applications of Abel-type equations
124.0 Miscellaneous applications of Fredholm equations

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