

ORIGINAL RESEARCH

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Methods of solution of singular integral equations

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Abstract

Purpose: This paper investigates a different method to evaluate different real improper integrals and also to obtain the solutions of various types of Cauchy-type singular integral equations of the first kind.

Methods: Methods using the analysis of functions of real variables only are reviewed and utilized for the above purpose. These methods clearly demonstrate that details of complex function theory which are normally employed in handling such integral equations for their solutions can be avoided altogether. Also, some approximate methods of solution of such integral equations are developed.

Results: The solutions of real singular integral equations over different intervals such as $(-1, 1)$; (a, b) ; $(0, a) \cup (b, c)$; $(-1, k) \cup (k, 1)$; $(-\infty, b)$; $(a, +\infty)$; $(-\infty, +\infty)$; infinite intervals with a gap are obtained by using the proposed methods.

Conclusion: The proposed methods are new and each has its own structure.

Keywords: Real singular integral equations, Cauchy-type kernels, Real variable method

MSC: 45E05

Background

Real singular integral equations involving Cauchy-type singularities arise (see [1-10]) in a natural way in handling a large class of mixed boundary value problems of mathematical physics, especially when two-dimensional problems are encountered. The integrals occurring in these integral equations are in fact improper and their evaluations in most cases can be rendered by using the theory of functions of complex variables involving the application of Cauchy's residue theorem. It is desirable, as is always felt, to avoid the use of complex function theory to evaluate real integrals because the details can be more involved analytically speaking than what is actually necessary for being able to use the final results in practical problems. It is with this idea in mind, in the present paper, that we have first reviewed the problems of evaluation of several real improper integrals (see [11]) by the help of the theory of functions of real variables only whilst the application of complex function theory is also demonstrated for these problems for comparison as well as for realizing the major differences of the analysis involved.

Thus, by developing the feeling that complex function theory can be avoided for problems involving improper real integrals, we have next taken up some known real singular

Methods Of Singular Integral Equations

**Zhongying Chen, Charles A.
Micchelli, Yuesheng Xu**



Methods Of Singular Integral Equations:

Singular Integral Equations and Discrete Vortices I. K. Lifanov, 2018-11-05 No detailed description available for Singular Integral Equations and Discrete Vortices **Singular Integral Equations** E.G. Ladopoulos, 2013-03-09 The present book deals with the finite part singular integral equations the multidimensional singular integral equations and the non linear singular integral equations which are currently used in many fields of engineering mechanics with applied character like elasticity plasticity thermoelastoplasticity viscoelasticity viscoplasticity fracture mechanics structural analysis fluid mechanics aerodynamics and elastodynamics These types of singular integral equations form the latest high technology on the solution of very important problems of solid and fluid mechanics and therefore special attention should be given by the reader of the present book who is interested for the new technology of the twentieth one century Chapter 1 is devoted with a historical report and an extended outline of References for the finite part singular integral equations the multidimensional singular integral equations and the non linear singular integral equations Chapter 2 provides a finite part singular integral representation analysis in L_p spaces and in general Hilbert spaces In the same Chapter are investigated all possible approximation methods for the numerical evaluation of the finite part singular integral equations as closed form solutions for the above type of integral equations are available only in simple cases Also Chapter 2 provides further a generalization of the well known Sokhotski Plemelj formulae and the Nother theorems for the case of a finite part singular integral equation

Methods of Singular Integral Equations Abduhamid Dzhuraev, 1992-07-19 Considers the class of singular integral equations on bounded two dimensional multiply connected domains on the plane and their applications to the theory of general elliptic systems of partial differential equations **Singular Integral Operators** Solomon G. Mikhlin, Siegfried Prößdorf, 1987 The present edition differs from the original German one mainly in the following additional material weighted norm inequalities for maximal functions and singular operators 12 Chap XI polysingular integral operators and pseudo differential operators 7 8 Chap XII and spline approximation methods for solving singular integral equations 4 Chap XVII Furthermore we added two subsections on polynomial approximation methods for singular integral equations over an interval or with discontinuous coefficients Nos 3 6 and 3 7 Chap XVII In many places we incorporated new results which in the vast majority are from the last five years after publishing the German edition note that the references are enlarged by about 150 new titles S G Mikhlin wrote 7 8 Chap XII and the other additions were drawn up by S Prossdorf We wish to express our deepest gratitude to Dr A Bottcher and Dr R Lehmann who together translated the text into English carefully and with remarkable expertise Applied Singular Integral Equations B. N. Mandal, A. Chakrabarti, 2016-04-19 The book is devoted to varieties of linear singular integral equations with special emphasis on their methods of solution It introduces the singular integral equations and their applications to researchers as well as graduate students of this fascinating and growing branch of applied mathematics Singular Integral Equations Ricardo Estrada, Ram P. Kanwal, 2000 This work focuses on the

distributional solutions of singular integral equations progressing from basic concepts of the classical theory to the more difficult two dimensional problems *Multidimensional Weakly Singular Integral Equations* Gennadi Vainikko, 2006-11-15

The final aim of the book is to construct effective discretization methods to solve multidimensional weakly singular integral equations of the second kind on a region of R^n equations arising in the radiation transfer theory To this end the smoothness of the solution is examined proposing sharp estimates of the growth of the derivatives of the solution near the boundary G The superconvergence effect of collocation methods at the collocation points is established This is a book for graduate students and researchers in the fields of analysis integral equations mathematical physics and numerical methods No special knowledge beyond standard undergraduate courses is assumed **Singular Integral Equations' Methods for the Analysis of Microwave Structures** Liudmila Nickelson, Victor Shugurov, 2018-11-05 No detailed description available for Singular Integral Equations Methods for the Analysis of Microwave Structures Wavelet Based Approximation Schemes for Singular Integral Equations Madan Mohan Panja, Birendra Nath Mandal, 2020-06-07 Many mathematical problems in science and engineering are defined by ordinary or partial differential equations with appropriate initial boundary conditions Among the various methods boundary integral equation method BIEM is probably the most effective Its main advantage is that it changes a problem from its formulation in terms of unbounded differential operator to one for an integral integro differential operator which makes the problem tractable from the analytical or numerical point of view Basically the review study of the problem is shifted to a boundary a relatively smaller domain where it gives rise to integral equations defined over a suitable function space Integral equations with singular kernels are among the most important classes in the fields of elasticity fluid mechanics electromagnetics and other domains in applied science and engineering With the advances in computer technology numerical simulations have become important tools in science and engineering Several methods have been developed in numerical analysis for equations in mathematical models of applied sciences Widely used methods include Finite Difference Method FDM Finite Element Method FEM Finite Volume Method FVM and Galerkin Method GM Unfortunately none of these are versatile Each has merits and limitations For example the widely used FDM and FEM suffers from difficulties in problem solving when rapid changes appear in singularities Even with the modern computing machines analysis of shock wave or crack propagations in three dimensional solids by the existing classical numerical schemes is challenging computational time memory requirements Therefore with the availability of faster computing machines research into the development of new efficient schemes for approximate solutions numerical simulations is an ongoing parallel activity Numerical methods based on wavelet basis multiresolution analysis may be regarded as a confluence of widely used numerical schemes based on Finite Difference Method Finite Element Method Galerkin Method etc The objective of this monograph is to deal with numerical techniques to obtain multiscale approximate solutions in wavelet basis of different types of integral equations with kernels involving varieties of singularities appearing in the field of elasticity

fluid mechanics electromagnetics and many other domains in applied science and engineering **Solution Methods for Integral Equations** M. A. Goldberg, 2013-11-21 **Handbook of Integral Equations** Polyanin Polyanin, Alexander V. Manzhirov, 2008-02-12 Unparalleled in scope compared to the literature currently available the Handbook of Integral Equations Second Edition contains over 2 500 integral equations with solutions as well as analytical and numerical methods for solving linear and nonlinear equations It explores Volterra Fredholm WienerHopf Hammerstein Uryson and other equa

On the Numerical Methods for Solving Singular Integral Equations Fenggang Zhang, 1990 Computational Methods for Linear Integral Equations Prem Kythe, Pratap Puri, 2011-06-28 This book presents numerical methods and computational aspects for linear integral equations Such equations occur in various areas of applied mathematics physics and engineering The material covered in this book though not exhaustive offers useful techniques for solving a variety of problems Historical information cover ing the nineteenth and twentieth centuries is available in fragments in Kantorovich and Krylov 1958 Anselone 1964 Mikhlin 1967 Lonseth 1977 Atkinson 1976 Baker 1978 Kondo 1991 and Brunner 1997 Integral equations are encountered in a variety of applications in many fields including continuum mechanics potential theory geophysics electricity and mag netism kinetic theory of gases hereditary phenomena in physics and biology renewal theory quantum mechanics radiation optimization optimal control sys tems communication theory mathematical economics population genetics queue ing theory and medicine Most of the boundary value problems involving differ ential equations can be converted into problems in integral equations but there are certain problems which can be formulated only in terms of integral equations A computational approach to the solution of integral equations is therefore an essential branch of scientific inquiry *14th Chaotic Modeling and Simulation International Conference* Christos H. Skiadas, Yiannis Dimotikalis, 2022-06-13 Gathering the proceedings of the 14th CHAOS2021 International Conference this book highlights recent developments in nonlinear dynamical and complex systems The conference was intended to provide an essential forum for Scientists and Engineers to exchange ideas methods and techniques in the field of Nonlinear Dynamics Chaos Fractals and their applications in General Science and the Engineering Sciences The respective chapters address key methods empirical data and computer techniques as well as major theoretical advances in the applied nonlinear field Beyond showcasing the state of the art the book will help academic and industrial researchers alike apply chaotic theory in their studies Chapter On the Origin of the Universe Chaos or Cosmos is available open access under a Creative Commons Attribution 4 0 International License via link [springer.com](https://www.springer.com) *Problems and Methods in Mathematical Physics* Johannes Elschner, Israel Gohberg, Bernd Silbermann, 2012-12-06 This volume presents the proceedings of the 11th Conference on Problems and Methods in Mathematical Physics 11th TMP held in Chemnitz March 25 28 1999 The conference was dedicated to the memory of Siegfried Pr ssdorf who made important contributions to the theory and numerical analysis of operator equations and their applications in mathematical physics and mechanics The main part of the book comprises original

research papers The topics are ranging from integral and pseudodifferential equations boundary value problems operator theory boundary element and wavelet methods approximation theory and inverse problems to various concrete problems and applications in physics and engineering and reflect Pr ssdorf s broad spectrum of research activities The volume also contains articles describing the life and mathematical achievements of Siegfried Pr ssdorf and includes a list of his publications The book is addressed to a wide audience in the mathematical and engineering sciences Numerical Solution of Integral Equations Michael A. Golberg, 2013-11-11 In 1979 I edited Volume 18 in this series Solution Methods for Integral Equations Theory and Applications Since that time there has been an explosive growth in all aspects of the numerical solution of integral equations By my estimate over 2000 papers on this subject have been published in the last decade and more than 60 books on theory and applications have appeared In particular as can be seen in many of the chapters in this book integral equation techniques are playing an increasingly important role in the solution of many scientific and engineering problems For instance the boundary element method discussed by Atkinson in Chapter 1 is becoming an equal partner with finite element and finite difference techniques for solving many types of partial differential equations Obviously in one volume it would be impossible to present a complete picture of what has taken place in this area during the past ten years Consequently we have chosen a number of subjects in which significant advances have been made that we feel have not been covered in depth in other books For instance ten years ago the theory of the numerical solution of Cauchy singular equations was in its infancy Today as shown by Golberg and Elliott in Chapters 5 and 6 the theory of polynomial approximations is essentially complete although many details of practical implementation remain to be worked out

Hypersingular Integral Equations and Their Applications I.K. Lifanov, L.N. Poltavskii, M.G.M. Vainikko, 2003-12-29 A number of new methods for solving singular and hypersingular integral equations have emerged in recent years This volume presents some of these new methods along with classical exact approximate and numerical methods The authors explore the analysis of hypersingular integral equations based on the theory of pseudodifferential operators and co Encyclopaedia of Mathematics Michiel Hazewinkel, 2013-12-01 This ENCYCLOPAEDIA OF MATHEMATICS aims to be a reference work for all parts of mathematics It is a translation with updates and editorial comments of the Soviet Mathematical Encyclopaedia published by Soviet Encyclopaedia Publishing House in five volumes in 1977 1985 The annotated translation consists of ten volumes including a special index volume There are three kinds of articles in this ENCYCLOPAEDIA First of all there are survey type articles dealing with the various main directions in mathematics where a rather fine subdivision has been used The main requirement for these articles has been that they should give a reasonably complete up to date account of the current state of affairs in these areas and that they should be maximally accessible On the whole these articles should be understandable to mathematics students in their first specialization years to graduates from other mathematical areas and depending on the specific subject to specialists in other domains of science engineers and teachers of mathematics These

articles treat their material at a fairly general level and aim to give an idea of the kind of problems techniques and concepts involved in the area in question They also contain background and motivation rather than precise statements of precise theorems with detailed definitions and technical details on how to carry out proofs and constructions The second kind of article of medium length contains more detailed concrete problems results and techniques

Multiscale Methods for Fredholm Integral Equations Zhongying Chen, Charles A. Micchelli, Yuesheng Xu, 2015-07-16 Presents the state of the art in the study of fast multiscale methods for solving these equations based on wavelets

Computational Methods for Integral Equations L. M. Delves, J. L. Mohamed, 1985 This textbook provides a readable account of techniques for numerical solutions

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