

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

E.G. Ladopoulos



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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

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 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

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 Integrals and Singular Integral Equations with a Cauchy Kernel and the Method of Symmetric Pairing Erwin H. Bareiss, Charles P. Neuman, 1965 The method of symmetric pairing combined with midpoint integration is introduced for the numerical evaluation of Hilbert transforms and the Kramers Kronig relations and singular integral equations with a Cauchy kernel The method for use on high speed computers is simple reliable and inexpensive Numerical examples are presented

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 e.g 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 On the Numerical Methods for Solving Singular Integral Equations Fenggang Zhang,1990 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 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 **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

Numerical Methods for Cauchy Type Singular Integral Equations Gordon David Gallacher,1976 *Direct Methods for the Approximate Solution of Singular Integral Equations* Erica Jen,1981 Numerical Solution of Singular Integral Equations Apostolos Gerasoulis,Robert Vichnevetsky,1984 *A Method for the Numerical Solution of Singular Integral Equations with a Principal Value Integral* A. Gerasoulis,R. P. Srivastav,STATE UNIV OF NEW YORK AT STONY BROOK DEPT OF APPLIED MATHEMATICS AND STATISTICS.,1980

SINGULAR INTEGRALS AND SINGULAR INTEGRAL EQUATIONS WITH A CAUCHY KERNEL AND THE METHOD OF SYMMETRIC PAIRING. ,1965 **Approximation Methods for Two Classes of Singular Integral Equations** ,2001 The dissertation consists of two parts In the first part approximate methods for multidimensional weakly singular integral operators with operator valued kernels are investigated Convergence results and error estimates are given There is considered an application of these methods to solving radiation transfer problems Numerical results are presented too In the second part we consider a polynomial collocation method for the numerical solution of a singular integral equation over the interval More precisely the operator of our integral equation is supposed to be of the form $aI + b\mu^{-1}S\mu$ with S the Cauchy singular integral operator with piecewise continuous coefficients a and b and with a Jacobi weight μ To the equation we apply a collocation method where the collocation points are the Chebyshev nodes of the first kind and where the trial space is the space of polynomials multiplied by another Jacobi weight For the stability and convergence of this collocation method in weighted L^2 spaces we derive necessary and sufficient conditions Moreover the extension of these results to an algebra generated by the sequences of the collocation method applied to the mentioned singular integral operators is discussed and the behaviour of the singular values of the discretized operators is investigated

Numerical Solutions of Singular Integral Equations and Some of Their Applications Murman Kublashvili,2025-05-20 The monograph deals with the numerical solutions of singular integral equations of Cauchy type and some of their applications The author's goal is to develop a method for solving Cauchy type singular integral equations numerically which could be used in the solution of problems in hydrodynamics aerodynamics theory of elasticity mathematical physics etc The book may be useful to anyone interested in approximate calculation methods for one dimensional singular integral equations with Cauchy kernels and their applications for solving numerically equations that involve these integrals

Singular Integrals in Boundary Element Methods Vladimír Sládek,Ján Sládek,1998 A text in singular integrals in boundary element methods Topics covered include treatment in crack problems regularization of boundary integral equations by the derivative transfer method regularization and evaluation of singular domain integrals in

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