

E.G. Ladopoulos

# Singular Integral Equations

Linear and Non-Linear  
Theory and its Applications  
in Science and Engineering



Springer

# Singular Integral Equations

**I. Gohberg, N. Krupnik**



## **Singular Integral Equations:**

*Multidimensional Singular Integrals and Integral Equations* S. G. Mikhlin, 2014-07-10 Multidimensional Singular Integrals and Integral Equations presents the results of the theory of multidimensional singular integrals and of equations containing such integrals Emphasis is on singular integrals taken over Euclidean space or in the closed manifold of Liapounov and equations containing such integrals This volume is comprised of eight chapters and begins with an overview of some theorems on linear equations in Banach spaces followed by a discussion on the simplest properties of multidimensional singular integrals Subsequent chapters deal with compounding of singular integrals properties of the symbol with particular reference to Fourier transform of a kernel and the symbol of a singular operator singular integrals in  $L_p$  spaces and singular integral equations The differentiation of integrals with a weak singularity is also considered along with the rule for the multiplication of the symbols in the general case The final chapter describes several applications of multidimensional singular integral equations to boundary problems in mathematical physics This book will be of interest to mathematicians and students of 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

**Singular Integral Equations** N. I. Muskhelishvili, J. R. M. Radok, 2008-01-01 This high level treatment considers one dimensional singular integral equations involving Cauchy principal values covering Hilbert and Riemann Hilbert problems Dirichlet problems inversion formulas for arcs more 1992 edition

*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 Integral Equations and Discrete Vortices** I. K. Lifanov,2018-11-05 No detailed description available for Singular Integral Equations and Discrete Vortices

**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

**One-Dimensional Linear Singular Integral Equations** I. Gohberg,N. Krupnik,2012-12-06 This book is an introduction to the theory of linear one dimensional singular integral equations It is essentially a graduate textbook Singular integral equations have attracted more and more attention because on one hand this class of equations appears in many applications and on the other it is one of a few classes of equations which can be solved in explicit form In this book material of the monograph 2 of the authors on one dimensional singular integral operators is widely used This monograph appeared in 1973 in Russian and later in German translation 3 In the final text version the authors included many addenda and changes which have in essence changed character structure and contents of the book and have in our opinion made it more suitable for a wider range of readers Only the case of singular integral operators with continuous coefficients on a closed contour is considered herein The case of discontinuous coefficients and more general contours will be considered in the second volume We are grateful to the editor Professor G Heinig of the volume and to the translators Dr B Luderer and Dr S Roch and to G Lillack who did the typing of the manuscript for the work they have done on this volume

**Numerical Solution of Singular Integral Equations** Apostolos Gerasoulis,Robert Vichnevetsky,1984

**Systems of Singular Integral Equations** Nikolaï Petrovich Vekua,1967 [A New Class of Singular Integral Equations and Its Application to Differential Equations with Singular Coefficients](#) L. G. Mikhailov,1970-12-31 No detailed description available for A New Class of Singular Integral Equations and Its Application to Differential Equations with Singular

Coefficients *Singular Integral Equations* Harendra Singh,Sudhanshu Aggarwal,2021-04-24 Many interesting problems of engineering mechanics statistics physics elasticity potential theory plasticity fluid dynamics population dynamics and aero dynamics can be solved by defining in terms of singular integral equations Singular integral equations have very unusual properties This book is to explore the basic concepts of singular integral equation Abel s integral equation generalized Abel s integral equation weakly singular Abel s type integral equation of second kind and weakly singular generalized Abel s type integral equation of second kind in a simple systematic and easy to understand manner The present book is divided into five chapters Chapter 1 contains the definition and examples of integral equation Volterra integral equation Fredholm integral equation singular integral equation with Laplace and inverse Laplace transforms Chapter 2 deals the solution of Abel s

integral equation using Laplace transforms with numerical problems Chapter 3 discusses the solution of generalized Abel's integral equation using Laplace transforms with numerical problems Chapter 4 discusses the solution of weakly singular Abel's type integral equation of second kind using Laplace transforms with numerical problems Chapter 5 discusses the solution of weakly singular generalized Abel's type integral equation of second kind using Laplace transforms with numerical problems

**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

**One-dimensional Linear Singular Integral Equations** Israel Gohberg, 1992 *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

**Multidimensional Weakly Singular Integral Equations** G. Vaĭnikko, 1993 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

*Singular Integrals* Alberto P. Calderón, 1967

*Multidimensional Weakly Singular Integral Equations* Gennadi Vainikko, 2014-01-15

**One-Dimensional Linear Singular Integral Equations** I. Gohberg, N. Krupnik, 2012-12-06 This monograph is the second volume of a graduate text book on the modern theory of linear one dimensional singular integral equations Both volumes may be regarded as unique graduate text books Singular integral equations attract more and more attention since this class of equations appears in numerous applications and also because they form one of the few classes of equations which can be solved explicitly The present book is to a great extent based upon material contained in the second part of the authors monograph 6 which appeared in 1973 in Russian and in 1979 in German translation The present text includes a large number of additions and complementary material essentially changing the character structure and contents of the book and making it accessible to a wider audience Our main subject in the first volume was the case of closed curves and continuous coefficients Here in the second volume we turn to general curves and discontinuous coefficients We are deeply grateful to the editor Professor G Heinig to the translator Dr S Roeh and to the typist Mr G Lillack for their patient work The authors Ramat Aviv Ramat Gan May 26 1991 11 Introduction This book is the second volume of an introduction to the theory of linear one dimensional singular integral operators The main topics of both parts of the book are the invertibility and Fredholmness of these operators Special attention is paid to inversion methods

**Singular Integral Operators** S. G. Mikhlin, S. Prössdorf, 1986-12-31 Keine ausführliche Beschreibung für Singular Integral Operators verfügbar

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