Mezhlum A. Sumbatyan
Antonio Scalia

EQUATIONS OF MATHEMATICAL DIFFRACTION THEORY

Equations Of Mathematical Diffraction Theory

E. Khruslov,L. Pastur,D. Shepelsky

Equations Of Mathematical Diffraction Theory:

    Equations of Mathematical Diffraction Theory Mezhlum A. Sumbatyan,Antonio Scalia,2004-09-29 Equations of Mathematical Diffraction Theory focuses on the comparative analysis and development of efficient analytical methods for solving equations of mathematical diffraction theory Following an overview of some general properties of integral and differential operators in the context of the linear theory of diffraction processes the authors provide estimates of the operator norms for various ranges of the wave number variation and then examine the spectral properties of these operators They also present a new analytical method for constructing asymptotic solutions of boundary integral equations in mathematical diffraction theory for the high frequency case Clearly demonstrating the close connection between heuristic and rigorous methods in mathematical diffraction theory this valuable book provides you with the differential and integral equations that can easily be used in practical applications **Equations of Mathematical Diffraction Theory** Mezhlum A. Sumbatyan,2005 **Mathematical Theory of Diffraction** Arnold Sommerfeld,2004 A Sommerfeld s Mathematische Theorie der Diffraction marks a milestone in optical theory full of insights that are still relevant today This complete translation reflecting substantial scholarship is the first publication in English of Sommerfeld s original work The Mathematical Theory of Huygens' Principle Bevan B. Baker,E. T. Copson,2003 Baker and Copson originally set themselves the task of writing a definitive text on partial differential equations in mathematical physics However at the time the subject was changing rapidly and greatly particularly via the developments coming from quantum mechanics Instead the authors chose to focus on a particular area of the broad theory producing a monograph complete in itself The resulting book deals with Huygens principle in optics and its application to the theory of diffraction Baker and Copson concern themselves with the general theory of the solution of the PDEs governing the propagation of light Extensive use is made of Green s method A chapter is dedicated to Sommerfeld s theory of diffraction including diffraction of polarized light by a perfectly reflecting half plane and by a black half plane New material was added for subsequent editions notably Rayleigh s method of integral equations to the problem of diffraction by a planar screen Some of the simpler diffraction problems are discussed as examples Baker and Copson s book quickly became the standard reference on the subject of Huygens principle It remains so today **Integral Equation Methods in Scattering Theory** David Colton,Rainer Kress,2013-11-15 This classic book provides a rigorous treatment of the Riesz Fredholm theory of compact operators in dual systems followed by a derivation of the jump relations and mapping properties of scalar and vector potentials in spaces of continuous and H lder continuous functions These results are then used to study scattering problems for the Helmholtz and Maxwell equations Readers will benefit from a full discussion of the mapping properties of scalar and vector potentials in spaces of continuous and H lder continuous functions an in depth treatment of the use of boundary integral equations to solve scattering problems for acoustic and electromagnetic waves and an introduction to inverse scattering theory with an emphasis on the ill posedness

and nonlinearity of the inverse scattering problem **Mathematical Questions in the Theory of Wave Diffraction** V. M. Babich,1974 Papers and articles about wave diffraction and its algebraic applications Differential Equations and Mathematical Physics Ian W. Knowles,Yoshimi Saito,2006-11-14 The meeting in Birmingham Alabama provided a forum for the discussion of recent developments in the theory of ordinary and partial differential equations both linear and non linear with particular reference to work relating to the equations of mathematical physics The meeting was attended by about 250 mathematicians from 22 countries The papers in this volume all involve new research material with at least outline proofs some papers also contain survey material Topics covered include Schr dinger theory scattering and inverse scattering fluid mechanics including conservative systems and inertial manifold theory attractors elasticity non linear waves and feedback control theory **Operator Theoretical Methods and Applications to Mathematical Physics** Israel Gohberg,Antonio, F. dos Santos,Frank-Olme Speck,Francisco Sepulveda Teixeira,Wolfgang L. Wendland,2012-12-06 This volume is devoted to the life and work of the applied mathematician Professor Erhard Meister 1930 2001 He was a member of the editorial boards of this book series Operator The ory Advances and Applications as well as of the journal Integral Equations and Operator Theory both published by Birkhauser now part of Springer Verlag Moreover he played a decisive role in the foundation of these two series by helping to establish contacts between Birkhauser and the founder and present chief editor of this book series after his emigration from Moldavia in 1974 The volume is divided into two parts Part A contains reminiscences about the life of E Meister including a short biography and an exposition of his professional work Part B displays the wide range of his scientific interests through eighteen original papers contributed by authors with close scientific and personal relations to E Meister We hope that a great part of the numerous features of his life and work can be re discovered from this book

Asymptotic Methods in Equations of Mathematical Physics B Vainberg,1989-02-25 Typed English translation of a monograph first published in Russian in 1982 Provides graduate students and researchers with usefully detailed discussion of most of the asymptotic methods standard these days to the work of mathematical physicists The author prefers not to dwell in the heights of abstraction he has written a broadly intelligble book which is informed at every point by his secure command of major physical applications An expensive but valuable contribution to the literature of an important but too little written about field Twelve chapters references NW Annotation copyrighted by Book News Inc Portland OR **Wave Propagation and Diffraction** Igor T. Selezov,Yuriy G. Kryvonos,Ivan S. Gandzha,2017-09-05 This book presents two distinct aspects of wave dynamics wave propagation and diffraction with a focus on wave diffraction The authors apply different mathematical methods to the solution of typical problems in the theory of wave propagation and diffraction and analyze the obtained results The rigorous diffraction theory distinguishes three approaches the method of surface currents where the diffracted field is represented as a superposition of secondary spherical waves emitted by each element the Huygens Fresnel principle the Fourier method and the separation of variables and Wiener Hopf transformation method Chapter 1 presents

mathematical methods related to studying the problems of wave diffraction theory while Chapter 2 deals with spectral methods in the theory of wave propagation focusing mainly on the Fourier methods to study the Stokes gravity waves on the surface of inviscid fluid Chapter 3 then presents some results of modeling the refraction of surf ace gravity waves on the basis of the ray method which originates from geometrical optics Chapter 4 is devoted to the diffraction of surface gravity waves and the final two chapters discuss the diffraction of waves by semi infinite domains on the basis of method of images and present some results on the problem of propagation of tsunami waves Lastly it provides insights into directions for further developing the wave diffraction theory **Operator Theory, Analysis and the State Space Approach** Harm Bart,Sanne ter Horst,André C.M. Ran,Hugo J. Woerdeman,2018-12-30 This volume is dedicated to Rien Kaashoek on the occasion of his 80th birthday and celebrates his many contributions to the field of operator theory during more than fifty years In the first part of the volume biographical information and personal accounts on the life of Rien Kaashoek are presented Eighteen research papers by friends and colleagues of Rien Kaashoek are included in the second part Contributions by J Agler Z A Lykova N J Young J A Ball G J Groenewald S ter Horst H Bart T Ehrhardt B Silbermann J M Bogoya S M Grudsky I S Malysheva A B ttcher E Wegert Z Zhou Y Eidelman I Haimovici A E Frazho A C M Ran B Fritzsche B Kirstein C Madler J J Jaftha D B Janse van Rensburg P Junghanns R Kaiser J Nemcova M Petreczky J H van Schuppen L Plevnik P Semrl A Sakhnovich F O Speck S Sremac H J Woerdeman H Wolkowicz and N Vasilevski **Gustav Robert Kirchhoff's Treatise "On The Theory Of Light Rays" (1882): English Translation, Analysis And Commentary** Klaus Hentschel,Ning Yan Zhu,2016-08-25 Although the editors admit that they cannot present an unequivocal explanation for the strange resilience of Kirchhoff s flawed theory their book is an admirable effort to meet this challenge It is a concerted effort to resolve a persistent riddle in the history of physics and an example of how expert knowledge from different specialties may be focused on a target of common interest ISIS JournalThe 1882 paper by the mathematical physicist Gustav Robert Kirchhoff on diffraction theory is still being discussed to this day but has never been translated into English This volume contains the first English translation of the Kirchhoff treatise as well as background and commentary on it Included are a biographical introduction to Kirchhoff s life an analysis of the reception to Kirchhoff s paper through the ages a discussion on why Kirchhoff s theory manages to produce accurate predictions in spite of being wrong and views on the theory as well as its predecessor and subsequent developments This anthology will make all English speaking scientists engineers historians and interested laymen aware of the great fecundity of Kirchhoff s thought and historical context *Wave Dynamics, Mechanics and Physics of Microstructured Metamaterials* Mezhlum A. Sumbatyan,2019-05-17 This book addresses theoretical and experimental methods for exploring microstructured metamaterials with a special focus on wave dynamics mechanics and related physical properties The authors use various mathematical and physical approaches to examine the mechanical properties inherent to particular types of metamaterials These include Boundary value problems in reduced strain gradient

elasticity for composite fiber reinforced metamaterials Self organization of molecules in ferroelectric thin films Combined models for surface layers of nanostructures Computer simulation at the micro and nanoscale Surface effects with anisotropic properties and imperfect temperature contacts Inhomogeneous anisotropic metamaterials with uncoupled and coupled surfaces or interfaces Special interface finite elements and other numerical and analytical methods for composite structures

Spectral Theory and Differential Equations E. Khruslov,L. Pastur,D. Shepelsky,2014-09-26 This volume is dedicated to V A Marchenko on the occasion of his 90th birthday It contains refereed original papers and survey articles written by his colleagues and former students of international stature and focuses on the areas to which he made important contributions spectral theory of differential and difference operators and related topics of mathematical physics including inverse problems of spectral theory homogenization theory and the theory of integrable systems The papers in the volume provide a comprehensive account of many of the most significant recent developments in that broad spectrum of areas   Solid Mechanics, Theory of Elasticity and Creep Holm Altenbach,Suren Manuk Mkhitaryan,Vahram Hakobyan,Avetik Varazdat Sahakyan,2023-02-06 This book presents fundamental theoretical and experimental studies of well known scientists in solid mechanics hydromechanics aeromechanics biomechanics etc These studies relate to contact and mixed problems of the theory of elasticity and viscoelasticity tribology fracture mechanics electroelasticity magnetoelasticity as well as to the theory of anisotropic shells and plates and are aimed at application in various areas of engineering practice The book is devoted to the 110th birthday of academician N Kh Arutunyan   **Spectral Theory, Mathematical System Theory, Evolution Equations, Differential and Difference Equations** Wolfgang Arendt,Joseph A. Ball,Jussi Behrndt,Karl-Heinz Förster,Volker Mehrmann,Carsten Trunk,2012-06-15 The present volume contains a collection of original research articles and expository contributions on recent developments in operator theory and its multifaceted applications They cover a wide range of themes from the IWOTA 2010 conference held at the TU Berlin Germany including spectral theory function spaces mathematical system theory evolution equations and semigroups and differential and difference operators The book encompasses new trends and various modern topics in operator theory and serves as a useful source of information to mathematicians scientists and engineers   Introduction to Complex Theory of Differential Equations Anton Savin,Boris Sternin,2017-03-28 This book discusses the complex theory of differential equations or more precisely the theory of differential equations on complex analytic manifolds Although the theory of differential equations on real manifolds is well known it is described in thousands of papers and its usefulness requires no comments or explanations to date specialists on differential equations have not focused on the complex theory of partial differential equations However as well as being remarkably beautiful this theory can be used to solve a number of problems in real theory for instance the Poincar balayage problem and the mother body problem in geophysics The monograph does not require readers to be familiar with advanced notions in complex analysis differential equations or topology With its numerous examples and exercises it appeals to

advanced undergraduate and graduate students and also to researchers wanting to familiarize themselves with the subject

Diffraction Theory V. M. Babich,Mikhail A. Lyalinov,Valery E. Grikurov,2008 This title contains the detailed descriptions of the Sommerfeld Malyuzhinets technique and the related mathematical aspects *Fifth International Conference on Mathematical and Numerical Aspects of Wave Propagation* Alfredo Berm?dez,2000-01-01 This conference was held in Santiago de Compostela Spain July 10 14 2000 This volume contains papers presented at the conference covering a broad range of topics in theoretical and applied wave propagation in the general areas of acoustics electromagnetism and elasticity Both direct and inverse problems are well represented This volume along with the three previous ones presents a state of the art primer for research in wave propagation The conference is conducted by the Institut National de Recherche en Informatique et en Automatique with the cooperation of SIAM **Elliptic Theory on Singular Manifolds** Vladimir E. Nazaikinskii,Anton Yu. Savin,Bert-Wolfgang Schulze,Boris Yu. Sternin,2005-08-12 The analysis and topology of elliptic operators on manifolds with singularities are much more complicated than in the smooth case and require completely new mathematical notions and theories While there has recently been much progress in the field many of these results have remained scattered in journals and preprints Starting from an ele

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