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194

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Nonlinear Theory of Pseudodifferential Equations on a Half-Line

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Nonlinear Theory Of Pseudodifferential Equations On A Half Line:

Nonlinear Theory of Pseudodifferential Equations on a Half-line Nakao Hayashi, Elena Kaikina, 2004-01-13 This book is the first attempt to develop systematically a general theory of the initial boundary value problems for nonlinear evolution equations with pseudodifferential operators on a half line or on a segment. We study traditionally important problems such as local and global existence of solutions and their properties. In particular, much attention is drawn to the asymptotic behavior of solutions for large time. Up to now, the theory of nonlinear initial boundary value problems with a general pseudodifferential operator has not been well developed due to its difficulty. There are many open natural questions. Firstly, how many boundary data should we pose on the initial boundary value problems for its correct solvability. As far as we know, there are few results in the case of nonlinear nonlocal equations. The methods developed in this book are applicable to a wide class of dispersive and dissipative nonlinear equations, both local and nonlocal. For the first time, the definition of pseudodifferential operator on a half line and a segment is done. A wide class of nonlinear nonlocal and local equations is considered. Developed theory is general and applicable to different equations. The book is written clearly; many examples are considered. Asymptotic formulas can be used for numerical computations by engineers and physicists. The authors are recognized experts in the nonlinear wave phenomena.

Asymptotics for Dissipative Nonlinear Equations Nakao Hayashi, Elena I. Kaikina, Pavel Naumkin, Ilya A. Shishmarev, 2006-08-23 This is the first book in world literature giving a systematic development of a general asymptotic theory for nonlinear partial differential equations with dissipation. Many typical well-known equations are considered as examples, such as nonlinear heat equation, KdV equation, nonlinear damped wave equation, Landau-Ginzburg equation, Sobolev type equations, systems of equations of Boussinesq, Navier-Stokes, and others.

Theory and Applications of Fractional Differential Equations A.A. Kilbas, H. M. Srivastava, J.J. Trujillo, 2006-02-16 This work aims to present in a systematic manner results including the existence and uniqueness of solutions for the Cauchy Type and Cauchy problems involving nonlinear ordinary fractional differential equations.

Differential and Integral Equations, 2009 **Mathematical Reviews**, 2008 **The British National Bibliography** Arthur James Wells, 2004

SUT Journal of Mathematics, 2004 **Fractional Calculus - From Theory to Applications** Christos Volos, Jesus Manuel Munoz-Pacheco, 2025-05-28 Over the last decade, research activity in the field of fractional calculus has surged, resulting in applications across a wide range of scientific disciplines. From the physics of diffusion and transport phenomena to control theory and financial systems, fractional calculus has proven valuable in numerous domains, capturing the interest of the scientific community. Therefore, this book comprises six chapters, each with the purpose of providing a brief overview of the subject of fractional calculus and its recent developments in theory and applications. This book aims to serve as an updated and handy reference for university professors, graduate students, laboratory researchers, as well as physicists and applied mathematicians who are interested in studying fractional calculus and its applications.

Small Divisor Problem in

the Theory of Three-Dimensional Water Gravity Waves Gérard Iooss, Pavel I. Plotnikov, 2009-06-05 The authors consider doubly periodic travelling waves at the surface of an infinitely deep perfect fluid only subjected to gravity g and resulting from the nonlinear interaction of two simply periodic travelling waves making an angle 2θ between them Denoting by μ gL/c^2 the dimensionless bifurcation parameter L is the wave length along the direction of the travelling wave and c is the velocity of the wave bifurcation occurs for $\mu \cos \theta$ For non resonant cases we first give a large family of formal three dimensional gravity travelling waves in the form of an expansion in powers of the amplitudes of two basic travelling waves Diamond waves are a particular case of such waves when they are symmetric with respect to the direction of propagation The main object of the paper is the proof of existence of such symmetric waves having the above mentioned asymptotic expansion Due to the occurrence of small divisors the main difficulty is the inversion of the linearized operator at a non trivial point for applying the Nash Moser theorem This operator is the sum of a second order differentiation along a certain direction and an integro differential operator of first order both depending periodically of coordinates It is shown that for almost all angles θ the 3 dimensional travelling waves bifurcate for a set of good values of the bifurcation parameter having asymptotically a full measure near the bifurcation curve in the parameter plane θ, μ Doklady, 2008

Introduction to the Spectral Theory of Polynomial Operator Pencils A. S. Markus, 2012-09-14 This monograph contains an exposition of the foundations of the spectral theory of polynomial operator pencils acting in a Hilbert space Spectral problems for polynomial pencils have attracted a steady interest in the last 35 years mainly because they arise naturally in such diverse areas of mathematical physics as differential equations and boundary value problems controllable systems the theory of oscillations and waves elasticity theory and hydromechanics In this book the author devotes most of his attention to the fundamental results of Keldysh on multiple completeness of the eigenvectors and associate vectors of a pencil and on the asymptotic behavior of its eigenvalues and generalizations of these results The author also presents various theorems on spectral factorization of pencils which grew out of known results of M G Krein and Heinz Langer A large portion of the book involves the theory of selfadjoint pencils an area having numerous applications Intended for mathematicians researchers in mechanics and theoretical physicists interested in spectral theory and its applications the book assumes a familiarity with the fundamentals of spectral theory of operators acting in a Hilbert space Elliptic Mixed, Transmission and Singular Crack Problems Gohar Harutyunyan, Bert-Wolfgang Schulze, 2007 Mixed transmission or crack problems belong to the analysis of boundary value problems on manifolds with singularities The Zaremba problem with a jump between Dirichlet and Neumann conditions along an interface on the boundary is a classical example The central theme of this book is to study mixed problems in standard Sobolev spaces as well as in weighted edge spaces where the interfaces are interpreted as edges Parametres and regularity of solutions are obtained within a systematic calculus of boundary value problems on manifolds with conical or edge singularities This calculus allows singularities on the interface and homotopies between mixed

and crack problems Additional edge conditions are computed in terms of relative index results In a detailed final chapter the intuitive ideas of the approach are illustrated and there is a discussion of future challenges A special feature of the text is the inclusion of many worked out examples which help the reader to appreciate the scope of the theory and to treat new cases of practical interest This book is addressed to mathematicians and physicists interested in models with singularities associated boundary value problems and their solvability strategies based on pseudo differential operators The material is also useful for students in higher semesters and young researchers as well as for experienced specialists working in analysis on manifolds with geometric singularities the applications of index theory and spectral theory operator algebras with symbolic structures quantisation and asymptotic analysis Partial Differential Equations Bogdan Bojarski,Roman Dwilewicz,1987 Technical Abstract Bulletin , **Reviews in Partial Differential Equations, 1980-86, as Printed in Mathematical Reviews** ,1988

An Index and Other Useful Information A. Dold,B. Eckmann,2013-12-11 **Documenta Mathematica** ,2004

The Integral Equations of the Theory of Elasticity N. F. Morozov,M. V. Paukshto,2013-11-21 **Dissertation Abstracts**

International ,2006 **Contemporary Computational Mathematics - A Celebration of the 80th Birthday of Ian Sloan** Josef Dick,Frances Y. Kuo,Henryk Woźniakowski,2018-05-23 This book is a tribute to Professor Ian Hugh Sloan on the occasion of his 80th birthday It consists of nearly 60 articles written by international leaders in a diverse range of areas in contemporary computational mathematics These papers highlight the impact and many achievements of Professor Sloan in his distinguished academic career The book also presents state of the art knowledge in many computational fields such as quasi Monte Carlo and Monte Carlo methods for multivariate integration multi level methods finite element methods uncertainty quantification spherical designs and integration on the sphere approximation and interpolation of multivariate functions oscillatory integrals and in general in information based complexity and tractability as well as in a range of other topics The book also tells the life story of the renowned mathematician family man colleague and friend who has been an inspiration to many of us The reader may especially enjoy the story from the perspective of his family his wife his daughter and son as well as grandchildren who share their views of Ian The clear message of the book is that Ian H Sloan has been a role model in science and life

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Table of Contents Nonlinear Theory Of Pseudodifferential Equations On A Half Line

1. Understanding the eBook Nonlinear Theory Of Pseudodifferential Equations On A Half Line
 - The Rise of Digital Reading Nonlinear Theory Of Pseudodifferential Equations On A Half Line
 - Advantages of eBooks Over Traditional Books
2. Identifying Nonlinear Theory Of Pseudodifferential Equations On A Half Line
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Nonlinear Theory Of Pseudodifferential Equations On A Half Line
 - User-Friendly Interface
4. Exploring eBook Recommendations from Nonlinear Theory Of Pseudodifferential Equations On A Half Line
 - Personalized Recommendations
 - Nonlinear Theory Of Pseudodifferential Equations On A Half Line User Reviews and Ratings
 - Nonlinear Theory Of Pseudodifferential Equations On A Half Line and Bestseller Lists
5. Accessing Nonlinear Theory Of Pseudodifferential Equations On A Half Line Free and Paid eBooks
 - Nonlinear Theory Of Pseudodifferential Equations On A Half Line Public Domain eBooks
 - Nonlinear Theory Of Pseudodifferential Equations On A Half Line eBook Subscription Services
 - Nonlinear Theory Of Pseudodifferential Equations On A Half Line Budget-Friendly Options

6. Navigating Nonlinear Theory Of Pseudodifferential Equations On A Half Line eBook Formats
 - ePub, PDF, MOBI, and More
 - Nonlinear Theory Of Pseudodifferential Equations On A Half Line Compatibility with Devices
 - Nonlinear Theory Of Pseudodifferential Equations On A Half Line Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Nonlinear Theory Of Pseudodifferential Equations On A Half Line
 - Highlighting and Note-Taking Nonlinear Theory Of Pseudodifferential Equations On A Half Line
 - Interactive Elements Nonlinear Theory Of Pseudodifferential Equations On A Half Line
8. Staying Engaged with Nonlinear Theory Of Pseudodifferential Equations On A Half Line
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Nonlinear Theory Of Pseudodifferential Equations On A Half Line
9. Balancing eBooks and Physical Books Nonlinear Theory Of Pseudodifferential Equations On A Half Line
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Nonlinear Theory Of Pseudodifferential Equations On A Half Line
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Nonlinear Theory Of Pseudodifferential Equations On A Half Line
 - Setting Reading Goals Nonlinear Theory Of Pseudodifferential Equations On A Half Line
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Nonlinear Theory Of Pseudodifferential Equations On A Half Line
 - Fact-Checking eBook Content of Nonlinear Theory Of Pseudodifferential Equations On A Half Line
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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Caterina, Treviso, September 10 - November 12 1967, n. 122 fig. 93 ill. in catalogue. G. Vianello, N. Stringa, C. Gian ... The young Arturo Martini The young Arturo Martini. Set off by the clear light of the cloister, around which open the rooms on the first floor, the works exhibited here showcase the ... Sold at Auction: Arturo Martini, ARTURO MARTINI Dec 21, 2022 — Arturo Martini, Ex Tempio di Santa Caterina, Treviso 1967, ill. cat ... The Artist's Resale Right has been in force in Italy since April 9th 2006 ... Arturo Martini. Catalogo della mostra. Treviso Catalogo di mostra, treviso, ex Tempio di Santa Caterina, 10 settembre - 12 novembre 1967. A cura di Giuseppe Mazzotti. Bibliografia. Catalogo delle opere. MARTINI, Arturo MARTINI, Arturo (Treviso, 1889 - Milano, 1947)Arturo Martini. ... Catalogo di mostra, treviso, ex Tempio di Santa Caterina, 10 settembre - 12 novembre 1967.