



Riemann Waves And Their Applications

G F Roach,A C McBride



Riemann Waves And Their Applications:

Riemann Waves and Their Applications Marek Wojciech Kalinowski, 1992
Applications Marek W. Kalinowski, 1993-01-01
Systems of Quasilinear Equations and Their Applications to Gas Dynamics Boris Leonidovich Rozhdestvenski, Nikola Nikolaevich I Anenko, 1983-12-31 This book is essentially a new edition revised and augmented by results of the last decade of the work of the same title published in 1968 by Nauka It is devoted to mathematical questions of gas dynamics Topics covered include Foundations of the Theory of Systems of Quasilinear Equations of Hyperbolic Type in Two Independent Variables Classical and Generalized Solutions of One Dimensional Gas Dynamics Difference Methods for Solving the Equations of Gas Dynamics and Generalized Solutions of Systems of Quasilinear Equations of Hyperbolic Type
Semigroups of Operators and Spectral Theory S Kantorovitz, 1995-06-19 This book presents some aspects of the theory of semigroups of operators mostly from the point of view of its interaction with spectral theory In order to make it self contained a concise description of the basic theory of semigroups with complete proofs is included in Part I Some of the author's recent results such as the construction of the Hille Yosida space for general operators the semi simplicity manifold and a Taylor formula for semigroups as functions of their generator are also included in Part I Part II describes recent generalizations most of them in bookform for the first time including pre semigroups semi simplicity manifolds in situations more general than that considered in Part I semigroups of unbounded symmetric operators and an analogous result on local cosine families and semi analytic vectors It is hoped that this book will inspire more research in this field This book will be of particular interest to graduate students and researchers working operator theory and its applications
Localization and Sheaves Jara Pascual, Conchi Vidal, A Verschoren, 1995-11-30 This book completely solves the problem of representing rings and modules over them which are locally noetherian over subsets of their prime spectrum by structure sheaves over this subset In order to realise this one has to develop the necessary localization theory as well as to study local equivalents of familiar concepts like the Artin Rees property Ore sets and the second layer condition The first part of the book is introductory and self contained and might serve as a starting course at graduate level on localization theory within Grothendieck categories The second part is more specialised and provides the basic machinery needed to effectively these structure sheaves as well as to study their functorial behaviour In this way the book should be viewed as a first introduction to what should be called relative noncommutative algebraic geometry
General Theory of Partial Differential Equations and Microlocal Analysis Min-You Qi, L Rodino, 1996-05-20
Recent Developments in Evolution Equations G F Roach, A C Mcbride, 1995-04-28 This book presents the majority of talks given at an International Conference held recently at the University of Strathclyde in Glasgow The works presented focus on the analysis of mathematical models of systems evolving with time The main topics are semigroups and related subjects connected with applications to partial differential equations of evolution type Topics of

particular interest include spectral and asymptotic properties of semigroups B evolution scattering theory and coagulation fragmentation phenomena

Progress in Holomorphic Dynamics Hartje Kriete, 1998-05-20 In the last few decades complex dynamical systems have received widespread public attention and emerged as one of the most active fields of mathematical research Starting where other monographs in the subject end *Progress in Holomorphic Dynamics* advances the theoretical aspects and recent results in complex dynamical systems with particular emphasis on Siegel discs Organized into four parts the papers in this volume grew out of three workshops two hosted by the Georg August Universit t G ttingen and one at the Mathematisches Forschungsinstitut Oberwolfach Part I addresses linearization The authors review Yoccoz s proof that the Brjuno condition is the optimal condition for linearizability of indifferent fixed points and offer a treatment of Perez Marco s refinement of Yoccoz s work Part II discusses the conditions necessary for the boundary of a Siegel disc to contain a critical point builds upon Herman s work and offers a survey of the state of the art regarding the boundaries of Siegel discs Part III deals with the topology of Julia sets with Siegel discs and contains a remarkable highlight C L Petersen establishes the existence of Siegel discs of quadratic polynomials with a locally connected boundary Keller taking a different approach explains the relations between locally connected real Julia sets with Siegel discs and the abstract concepts of kneading sequences and itineraries Part IV closes the volume with four papers that review the different directions of present research in iteration theory It includes discussions on the relations between commuting rational functions and their Julia sets interactions between the iteration of polynomials and the iteration theory of entire transcendental functions a deep analysis of the topology of the limbs of the Mandelbrot set and an overview of complex dynamics in higher dimensions

Extending Modules Nguyen Viet Dung, 2019-01-22 Module theory is an important tool for many different branches of mathematics as well as being an interesting subject in its own right Within module theory the concept of injective modules is particularly important Extending modules form a natural class of modules which is more general than the class of injective modules but retains many of its

Topics in Abstract Differential Equations II S D Zaidman, 1995-03-20 This looks at a new branch of operator theory and partial differential equations which in recent years has become a rapidly growing field of mathematics Well posed problems are studied in the context of the theory of operator groups and semigroups as well as the framework of time dependent evolution equations Non well posed problems are also considered

Progress in Theoretical and Computational Fluid Mechanics G P Galdi, Jindrich Necas, Josef Malek, 1994-05-18 This volume presents a series of lectures given at the Winter School in Fluid Dynamics held in Paseky Czech Republic in December 1993 Including original research and important new results it contains a detailed investigation of some methods used towards the proof of global regularity for the Navier Stokes equations It also explores new formulations of the free boundary in the dynamics of viscous fluids and different methods for conservation laws in several space dimensions and related numerical schemes The final contribution examines the existence and stability of non isothermal compressible fluids and their relation with incompressible

models *A Method for Computing Unsteady Flows in Porous Media* R Raghavan, 2017-11-22 Self contained and concise this Research Note provides a basis to study unsteady flow in saturated porous media It provides for the development of algorithms that examine three dimensional flows subject to complicated boundary conditions that are a natural consequence of flow in geological systems A new way to understand the flow in porous media is presented The authors pay attention to computational considerations and options for developing codes are addressed The note consists of five chapters the first is introductory the second and third are devoted to showing how one arrives at the solutions of interest the fourth chapter presents various reformulations to aid computations and presents a few illustrative examples the fifth chapter is a natural progression of the first four chapters to more complicated visualizations of flow in porous media *Backward Stochastic Differential Equations* N El Karoui, Laurent Mazliak, 1997-01-17 This book presents the texts of seminars presented during the years 1995 and 1996 at the Universit Paris VI and is the first attempt to present a survey on this subject Starting from the classical conditions for existence and unicity of a solution in the most simple case which requires more than basic stochartic calculus several refinements on the hypotheses are introduced to obtain more general results *Dirac Operators in Analysis* John Ryan, Daniele C Struppa, 1999-01-06 Clifford analysis has blossomed into an increasingly relevant and fashionable area of research in mathematical analysis it fits conveniently at the crossroads of many fundamental areas of research including classical harmonic analysis operator theory and boundary behavior This book presents a state of the art account of the most recent developments in the field of Clifford analysis with contributions by many of the field s leading researchers *Integral Expansions Related to Mehler-Fock Type Transforms* B N Mandal, Nanigopal Mandal, 2020-11-25 An important class of integral expansions generated by Sturm Liouville theory involving spherical harmonics is commonly known as Mehler Fock integral transforms In this book a number of integral expansions of such type have been established rigorously As applications integral expansions of some simple function are also obtained *Common Zeros of Polynominals in Several Variables and Higher Dimensional Quadrature* Yuan Xu, 2020-12-18 Presents a systematic study of the common zeros of polynomials in several variables which are related to higher dimensional quadrature The author uses a new approach which is based on the recent development of orthogonal polynomials in several variables and differs significantly from the previous ones based on algebraic ideal theory Featuring a great deal of new work new theorems and in many cases new proofs this self contained work will be of great interest to researchers in numerical analysis the theory of orthogonal polynomials and related subjects *Random Geometrically Graph Directed Self-Similar Multifractals* Lars Olsen, 2017-07-12 Multifractal theory was introduced by theoretical physicists in 1986 Since then multifractals have increasingly been studied by mathematicians This new work presents the latest research on random results on random multifractals and the physical thermodynamical interpretation of these results As the amount of work in this area increases Lars Olsen presents a unifying approach to current multifractal theory Featuring high quality original research material this important new book fills a gap

in the current literature available providing a rigorous mathematical treatment of multifractal measures Variational Methods in Lorentzian Geometry Antonio Masiello,2017-10-05 Applies variational methods and critical point theory on infinite dimensional manifolds to some problems in Lorentzian geometry which have a variational nature such as existence and multiplicity results on geodesics and relations between such geodesics and the topology of the manifold Refined Large Deviation Limit Theorems Vladimir Vinogradov,2023-06-14 This is a developing area of modern probability theory which has applications in many areas This volume is devoted to the systematic study of results on large deviations in situations where Cramér's condition on the finiteness of exponential moments may not be satisfied Linear Theory of Colombeau Generalized Functions M Nedeljkov,S Pilipovic,D Scarpalezos,1998-05-20 Results from the now classical distribution theory involving convolution and Fourier transformation are extended to cater for Colombeau's generalized functions Indications are given how these particular generalized functions can be used to investigate linear equations and pseudo differential operators Furthermore applications are also given to problems with nonregular data

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