

M. Chipot and I. Shafrir

Progress in Partial Differential Equations The Metz Surveys 4



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John Ryan, Daniele C Struppa

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Progress in Elliptic and Parabolic Partial Differential Equations A Alvino, P Buonocore, V Ferone, E Giarrusso, G Trombetti, S Matarasso, 1996-05-15 This Research Note collects reports of the invited plenary addresses given during the conference Elliptic and Parabolic Partial Differential Equations and Applications held in Capri Italy 19 23 September 1994 The conference was devoted to new developments in partial differential equations of elliptic and parabolic type and to their applications in various fields

Ordinary and Partial Differential Equations P Smith, R J Jarvis, 1997-07-16 These conference proceedings include papers by a number of experts with a common interest in differential equations and their application in physical and biological systems Topics covered include direct and inverse electromagnetic scattering techniques spatial epidemic models wound healing chemotaxis and reaction diffusion equations dynamics and stability of thin liquid films and a contemporary formulation of symmetric linear differential equations

General Theory of Partial Differential Equations and Microlocal Analysis Min-You Qi, L Rodino, 1996-05-20

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Sachdev, 2020-01-30 The First Pan China Conference on Differential Equations was held in Kunming China in June of 1997 Researchers from around the world attended including representatives from the US Canada and the Netherlands but the

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Navier-Stokes Equations Rodolfo Salvi,1998-05-20 This volume contains the texts of selected lectures delivered at the International Conference on Navier Stokes Equations Theory and Numerical Methods held during 1997 in Varenna Lecco Italy In recent years the interest in mathematical theory of phenomena in fluid mechanics has increased particularly from the point of view of numerical analysis The book surveys recent developments in Navier Stokes equations and their applications and contains contributions from leading experts in the field It will be a valuable resource for all researchers in fluid dynamics

Integral Representations For Spatial Models of Mathematical Physics Vladislav V Kravchenko, Michael Shapiro, 2020-11-25 This book provides a new mathematical theory for the treatment of an ample series of spatial problems of electrodynamics particle physics quantum mechanics and elasticity theory This technique proves to be as powerful for solving the spatial problems of mathematical physics as complex analysis is for solving planar problems. The main analytic tool of the book a non harmonic version of hypercomplex analysis recently developed by the authors is presented in detail. There are given applications of this theory to the boundary value problems of electrodynamics and elasticity theory as well as to the problem of quark confinement A new approach to the linearization of special classes of the self duality equation is also considered Detailed proofs are given throughout The book contains an extensive bibliography on closely related topics. This book will be of particular interest to academic and professional specialists and students in mathematics and physics who are interested in integral representations for partial differential equations. The book is self-contained and could be used as a main reference for special course seminars on the subject.

Elliptic Operators, Topology, and Asymptotic Methods John Roe, 2013-12-19. Ten years after publication of the popular first edition of this volume the index theorem continues to stand as

a central result of modern mathematics one of the most important foci for the interaction of topology geometry and analysis Retaining its concise presentation but offering streamlined analyses and expanded coverage of important exampl Analytic and Algebraic Singularities Toshisumi Fukui, Shuichi Izumiya, Satoshi Koike, Toshisumi Fukuda, 1997-12-12 This book contains a collection of papers covering recent progress in a number of areas of singularity theory Topics include blow analyticity recent progress in the research on equivalence relations of maps and functions sufficiency of jets and the transversality theorem Geometric and analytic studies of partial differential equations have been developed independently of one another but the shock wave solutions appearing in natural phenomena are not well understood Singularity theory may unify these studies and a survey based on this viewpoint is presented in which a new notion of weak solution is introduced There are also reports on the recent progress in Zariski s conjecture on multiplicities of hypersurfaces transcendency of analytic sets and on the topology of weighted homogeneous polynomials. This book will be of particular interest to specialists in singularities partial differential equations algebraic geometry and control theory 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 Classical and Quantic Periodic Motions of Multiply Polarized Spin-Particles Abbas Bahri, 1997-11-28 The author of this volume defines a diffusion flow for a variational problem lacking completeness related to the geometry of a contact form a a and a vector field u in its kernel He analyzes the ends of the flow lines and finds them to be of two types one involving periodic orbits of the Reeb Hamiltonian vector field x and the other where asymptotes occur In the most general case these turn out to be periodic motions for x up to quantic jumps of a very special type along u He shows that the mathematical results and the physical interpretation fit and provide new points of view useful in the foundations of quantum mechanics **Boundary Value Problems with** Equivalued Surface and Resistivity Well-Logging T Li, Songmu Zheng, Yong-Si Tan, Weixi Shen, 1998-03-25 This first part of this book deals with the boundary value problem with equivalued surfaces while the second part is concerned with the mathematical model and method including the numerical method of the resistivity well logging for the three lateral well **Dirac Operators in Analysis** John Ryan, Daniele C Struppa, 1999-01-06 Clifford analysis has blossomed into an logging 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 Functional Analysis with Current Applications in Science, Technology and Industry Martin Brokate, Abul Hasan Siddiqi, 1997-12-08 This volume constitutes the proceedings of a conference on

functional analysis and its applications which took place in India during December 1996 Topics include topological vector spaces Banach algebras meromorphic functions partial differential equations variational equations and inequalities optimization wavelets elastroplasticity numerical integration fractal image compression reservoir simulation forest management and industrial maths
Inner Product Spaces and Applications T M Rassias,1997-10-08 In this volume the contributing authors deal primarily with the interaction among problems of analysis and geometry in the context of inner product spaces They present new and old characterizations of inner product spaces among normed linear spaces and the use of such spaces in various research problems of pure and applied mathematics The methods employed are accessible to students familiar with normed linear spaces Some of the theorems presented are at the same time simple and challenging

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