Proceedings of the Third International Workshop on

Contemporary Problems in Mathematical Physics

editors

Jan Govaerts
M. Norbert Hounkonnou
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Contemporary Problems In Mathematical Physics

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Topics in Contemporary Mathematical Physics Kai S. Lam,2003 This textbook pitched at the advanced undergraduate to beginning graduate level focuses on mathematical topics of relevance in contemporary physics that are not usually covered in texts at the same level Its main purpose is to help students appreciate and take advantage of the modern trend of very

productive symbiosis between physics and mathematics Three major areas are covered 1 linear operators 2 group representations and Lie algebra representations 3 topology and differential geometry The following are noteworthy features of this book the style of exposition is a fusion of those common in the standard physics and mathematics literatures the level of exposition varies from quite elementary to moderately advanced so that the book is of interest to a wide audience despite the diversity of the topics covered there is a strong degree of thematic unity much care is devoted to detailed cross referencing so that from any part of the book the reader can trace easily where specific concepts or techniques are introduced **Boundary Value Problems of Mathematical Physics** Ivar Stakgold,2000-06-30 For more than 30 years this two volume set has helped prepare graduate students to use partial differential equations and integral equations to handle significant problems arising in applied mathematics engineering and the physical sciences Originally published in 1967 this graduate level introduction is devoted to the mathematics needed for the modern approach to boundary value problems using Green s functions and using eigenvalue expansions Now a part of SIAM s Classics series these volumes contain a large number of concrete interesting examples of boundary value problems for partial differential equations that cover a variety of applications that are still relevant today For example there is substantial treatment of the Helmholtz equation and scattering theory subjects that play a central role in contemporary inverse problems in acoustics and electromagnetic theory Proceedings of the First International Workshop on Contemporary Problems in Mathematical Physics Jan Govaerts,2000 *A Collection of Problems on the Equations of Mathematical Physics* Vasilij S. Vladimirov,2013-11-09 The extensive application of modern mathematical teehniques to theoretical and mathematical physics requires a fresh approach to the course of equations of mathematical physics This is especially true with regards to such a fundamental concept as the 80lution of a boundary value problem The concept of a generalized solution considerably broadens the field of problems and enables solving from a unified position the most interesting problems that cannot be solved by applying elassical methods To this end two new courses have been written at the Department of Higher Mathematics at the Moscow Physics anrl Technology Institute namely Equations of Mathematical Physics by V S Vladimirov and Partial Differential Equations by V P Mikhailov both books have been translated into English by Mir Publishers the first in 1984 and the second in 1978 The present collection of problems is based on these courses and amplifies them considerably Besides the classical boundary value problems we have ineluded a large number of boundary value problems that have only generalized solutions Solution of these requires using the methods and results of various branches of modern analysis For this reason we have ineluded problems in Lebesgue in tegration problems involving function spaces especially spaces of generalized differentiable functions and generalized functions with Fourier and Laplace transforms and integral equations **Differential Equations, Mathematical Physics, and Applications: Selim Grigorievich Krein Centennial** Peter Kuchment,Evgeny Semenov,2019-07-22 This is the second of two volumes dedicated to the centennial of the distinguished

mathematician Selim Grigorievich Krein The companion volume is Contemporary Mathematics Volume 733 Krein was a major contributor to functional analysis operator theory partial differential equations fluid dynamics and other areas and the author of several influential monographs in these areas He was a prolific teacher graduating 83 Ph D students Krein also created and ran for many years the annual Voronezh Winter Mathematical Schools which significantly influenced mathematical life in the former Soviet Union The articles contained in this volume are written by prominent mathematicians former students and colleagues of Selim Krein as well as lecturers and participants of Voronezh Winter Schools They are devoted to a variety of contemporary problems in ordinary and partial differential equations fluid dynamics and various applications   **What Mathematics from Africa?** Giandomenico Sica,2005   **Contemporary Problems in Statistical Physics** George H. Weiss,1994-01-01 This collection of independent articles describes some mathematical problems recently developed in statistical physics and theoretical chemistry The book introduces and reviews current research on such topics as nonlinear systems and colored noise stochastic resonance percolation the trapping problem in the theory of random walks and diffusive models for chemical kinetics Some of these topics have never before been presented in expository book form Applied mathematicians will be introduced to some contemporary problems in statistical physics In addition a number of unsolved problems currently attracting intensive research efforts are described and some of the techniques used in this research are outlined along with principal results and outstanding questions A wide spectrum of mathematical techniques is covered but the main emphasis is on introducing the mathematician to different research areas with open and interesting problems This is an ideal starting point for the mathematician with an elementary acquaintance with the methodology of statistical physics The material is meant to be introductory and terms are carefully defined Many topics that require further study are introduced providing new research ideas for the applied mathematician or thesis problems for the graduate student

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Proceedings of the First International Workshop on Contemporary Problems in Mathematical Physics Jan Govaerts,M. Norbert Hounkonnou,W. A. Lester,2000 The topics discussed include recent developments in operator theory and orthogonal polynomials coherent states and wavelet analysis geometric methods in theoretical physics and quantum field theory and the application of these methods of mathematical physics to problems in atomic and molecular physics as well as the world of the elementary particles and their fundamental interactions This volume should be of interest to anyone working in a field using the mathematical methods of any of these general topics   Advances in Quantum Mechanics Alessandro Michelangeli,Gianfausto Dell'Antonio,2017-08-01 This volume collects recent contributions on the contemporary trends in the mathematics of quantum mechanics and more specifically in mathematical problems arising in quantum many body dynamics quantum graph theory cold atoms unitary gases with particular emphasis on the developments of the specific mathematical tools needed including linear and non linear Schr dinger equations topological invariants non commutative geometry resonances and operator extension theory among others Most of contributors are international leading experts or respected young researchers in mathematical physics PDE and operator theory All their material is the fruit of recent studies that have already become a reference in the community Offering a unified perspective of the mathematics of quantum mechanics it is a valuable resource for researchers in the field

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