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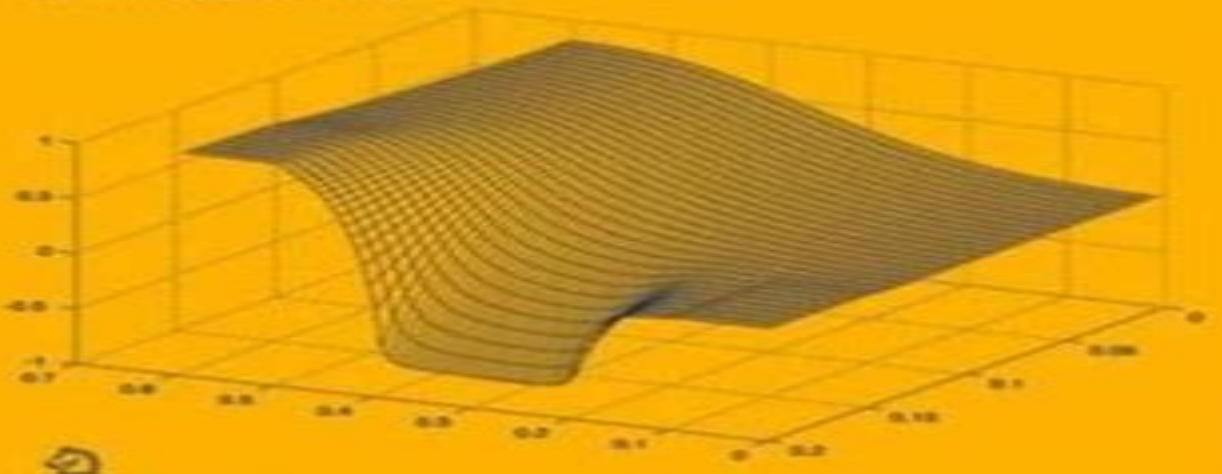

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Mathematical Problems in Semiconductor Physics P A Marcati,P A Markowich,Roberto Natalini,1995-12-15 This collection of papers arises from a workshop held at the Istituto per le Applicazioni del Calcolo of the Italian CNR The first part of the book includes the material covered by three mini series of lectures at graduate level on some advanced mathematical topics in semiconductor physics The second part of the book includes more specialized topics covered by invited speakers in their individual lectures **Mathematical Problems in Semiconductor Physics** Angelo Marcello Anile,Walter Allegretto,Christian Ringhofer,2003-12-10 On the the mathematical aspects of the theory of carrier transport in semiconductor devices The subjects covered include hydrodynamical models for semiconductors based on the maximum entropy principle of extended thermodynamics mathematical theory of drift diffusion equations with applications and the methods of asymptotic analysis **Mathematical Problems in Semiconductor Physics** Angelo Marcello Anile,2003

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Partial Differential Equations and Spectral Theory Michael Demuth,Bert-Wolfgang Schulze,Ingo Witt,2011-02-01 This volume collects six articles on selected topics at the frontier between partial differential equations and spectral theory written by leading specialists in their respective field The articles focus on topics that are in the center of attention of current research with original contributions from the authors They are written in a clear expository style that makes them accessible to a broader audience The articles contain a detailed introduction and discuss recent progress provide additional motivation and develop the necessary tools Moreover the authors share their views on future developments hypotheses and unsolved problems **Transport Equations for Semiconductors** Ansgar Jüngel,2009-03-17 This volume presents a systematic and mathematically accurate description and derivation of transport equations in solid state physics in particular semiconductor devices Proceedings, "WASCOM 2003" Roberto Monaco,2004 This book contains about 20 invited papers and 40 contributed papers in the research areas of theoretical continuum mechanics kinetic theory and numerical applications of continuum mechanics Collectively these papers give a good overview of the activities and developments in these fields in the last few years The proceedings have been selected for coverage in OCo Index to Scientific Inverse Problems in Photon

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harmonic oscillators with particular emphasis on a class of systems introduced by M Wakayama and myself about ten years ago The class of n commutative harmonic oscillators is very rich and many problems are still open and worth of being pursued **Banach Spaces and Descriptive Set Theory: Selected Topics** Pandelis Dodos,2010-04-15 These notes are devoted to the study of some classical problems in the Geometry of Banach spaces The novelty lies in the fact that their solution relies heavily on techniques coming from Descriptive Set Theory Thecentralthemeisuniversalityproblems Inparticular thetextprovides an exposition of the methods developed recently in order to treat questions of the following type Q LetC be a class of separable Banach spaces such that every space X in the classC has a certain property say property P When can we nd a separable Banach space Y which has property P and contains an isomorphic copy of every member ofC We will consider quite classical properties of Banach spaces such as ing re exive having separable dual not containing an isomorphic copy of c being non universal etc 0 It turns out that a positive answer to problem Q for any of the above mentioned properties is possible if and essentially only if the classC is simple The simplicity ofC is measured in set theoretic terms Precisely if the classC is analytic in a natural coding of separable Banach spaces then we can indeed nd a separable space Y which is universal for the class C and satis es the requirements imposed above **Intersection Spaces, Spatial Homology Truncation, and String Theory** Markus Banagl,2010-06-16 Intersection cohomology assigns groups which satisfy a generalized form of Poincar duality over the rationals to a stratified singular space This monograph introduces a method that assigns to certain classes of stratified spaces cell complexes called intersection spaces whose ordinary rational homology satisfies generalized Poincar duality The cornerstone of the method is a process of spatial homology truncation whose functoriality properties are analyzed in detail The material on truncation is autonomous and may be of independent interest tohomotopy theorists The cohomology of intersection spaces is not isomorphic to intersection cohomology and possesses algebraic features such as perversity internal cup products and cohomology operations that are not generally available for intersection cohomology A mirror symmetric interpretation as well as applications to string theory concerning massless D branes arising in type IIB theory during a Calabi Yau conifold transition are discussed *Local Lyapunov Exponents* Wolfgang Siegert,2008-12-17 Establishing a new concept of local Lyapunov exponents the author brings together two separate theories namely Lyapunov exponents and the theory of large deviations Specifically a linear differential system is considered which is controlled by a stochastic process that during a suitable noise intensity dependent time is trapped near one of its so called metastable states The local Lyapunov exponent is then introduced as the exponential growth rate of the linear system on this time scale Unlike classical Lyapunov exponents which involve a limit as time increases to infinity in a fixed system here the system itself changes as the noise intensity converges too **Differential Equations Driven by Rough Paths** Terry J. Lyons,Michael J. Caruana,Thierry Lévy,2007-04-25 Each year young mathematicians congregate in Saint Flour France and listen to extended lecture courses on new topics in Probability Theory The goal of these notes

representing a course given by Terry Lyons in 2004 is to provide a straightforward and self supporting but minimalist account of the key results forming the foundation of the theory of rough paths **Quasi-hydrodynamic Semiconductor Equations** Ansgar Jüngel,2011-04-27 In this book a hierarchy of macroscopic models for semiconductor devices is presented Three classes of models are studied in detail isentropic drift diffusion equations energy transport models and quantum hydrodynamic equations The derivation of each of the models is shown including physical discussions Furthermore the corresponding mathematical problems are analyzed using modern techniques for nonlinear partial differential equations The equations are discretized employing mixed finite element methods Also numerical simulations for modern semiconductor devices are performed showing the particular features of the models Modern analytical techniques have been used and further developed such as positive solution methods local energy methods for free boundary problems and entropy methods The book is aimed at applied mathematicians and physicists interested in mathematics as well as graduate and postdoc students and researchers in these fields *Attractivity and Bifurcation for Nonautonomous Dynamical Systems* Martin Rasmussen,2007-06-08 Although bifurcation theory of equations with autonomous and periodic time dependence is a major object of research in the study of dynamical systems since decades the notion of a nonautonomous bifurcation is not yet established In this book two different approaches are developed which are based on special definitions of local attractivity and repulsivity It is shown that these notions lead to nonautonomous Morse decompositions *Iterative Approximation of Fixed Points* Vasile Berinde,2007-04-20 This monograph gives an introductory treatment of the most important iterative methods for constructing fixed points of nonlinear contractive type mappings For each iterative method considered it summarizes the most significant contributions in the area by presenting some of the most relevant convergence theorems It also presents applications to the solution of nonlinear operator equations as well as the appropriate error analysis of the main iterative methods

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