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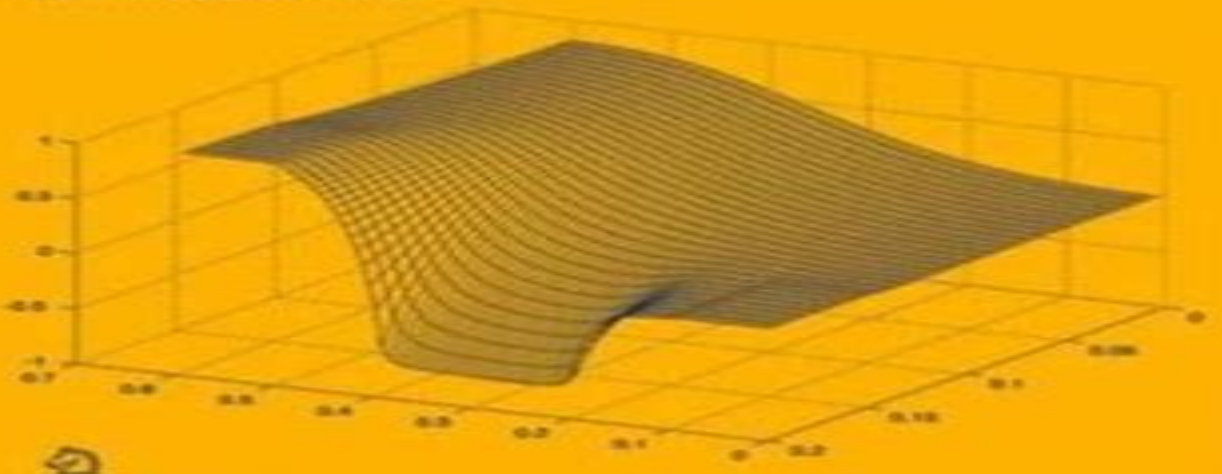
Cetraro, Italy 1998

Editor: A. M. Anile



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Mathematical Problems In Semiconductor Physics

Angelo Marcello Anile,Walter Allegretto,Christian Ringhofer

Mathematical Problems In Semiconductor Physics:

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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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