

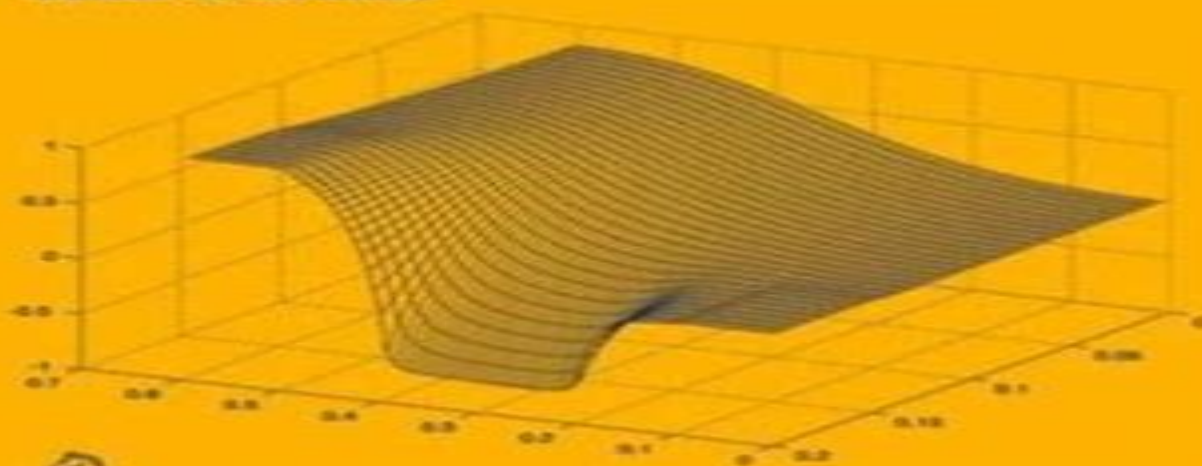
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Mathematical Problems in Semiconductor Physics

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Mathematical Problems In Semiconductor Physics

Martin Rasmussen



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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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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 The central theme is universality problems In particular the text provides an exposition of the methods developed recently in order to treat questions of the following type Q Let C be a class of separable Banach spaces such that every space X in the class C has a certain property say property P When can we find a separable Banach space Y which has property P and contains an isomorphic copy of every member of C We will consider quite classical properties of Banach spaces such as reflexivity having separable dual not containing an isomorphic copy of c_0 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 class C is simple The simplicity of C is measured in set theoretic terms Precisely if the class C is analytic in a natural coding of separable Banach spaces then we can indeed find a separable space Y which is universal for the class C and satisfies the requirements imposed above

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Local Lyapunov Exponents Wolfgang Siebert, 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

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