Da-Quan Jiang Min Qian Min-Ping Qian

Mathematical Theory of Nonequilibrium Steady States

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On the Frontier of Probability and Dynamical Systems



Mathematical Theory Of Nonequilibrium Steady States

Da-Quan Jiang, Ming-Ping Qian

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this theory is contained in the Introduction chapter At the same time this book is also intended for specialists in geometry and mathematical physics applying the theory of Riemann surfaces in their research It is the first book on numerics of Riemann surfaces that reflects the progress made in this field during the last decade and it contains original results There are a growing number of applications that involve the evaluation of concrete characteristics of models analytically described in terms of Riemann surfaces Many problem settings and computations in this volume are motivated by such concrete applications in geometry and mathematical physics **Abstract Harmonic Analysis of Continuous Wavelet Transforms** Applied Stochastic Analysis Weinan E, Tiejun Li, Eric Vanden-Eijnden, 2021-09-22 This is a textbook for advanced undergraduate students and beginning graduate students in applied mathematics. It presents the basic mathematical foundations of stochastic analysis probability theory and stochastic processes as well as some important practical tools and applications e g the connection with differential equations numerical methods path integrals random fields statistical physics chemical kinetics and rare events. The book strikes a nice balance between mathematical formalism and intuitive arguments a style that is most suited for applied mathematicians Readers can learn both the rigorous treatment of stochastic analysis as well as practical applications in modeling and simulation Numerous exercises nicely supplement the main exposition The Principle of Least Action in Geometry and Dynamics Karl Friedrich Siburg, 2004-05-17 New variational methods by Aubry Mather and Mane discovered in the last twenty years gave deep insight into the dynamics of convex Lagrangian systems This book shows how this Principle of Least Action appears in a variety of settings billiards length spectrum Hofer geometry modern symplectic geometry Thus topics from modern dynamical systems and modern symplectic geometry are linked in a new and sometimes surprising way The central object is Mather's minimal action functional The level is for graduate students onwards but also for researchers in any of the subjects touched in the book Hypoelliptic Estimates and Spectral Theory for Fokker-Planck Operators and Witten Laplacians Francis Nier, Bernard Helffer, 2005-02-11 There has recently been a renewal of interest in Fokker Planck operators motivated by problems in statistical physics in kinetic equations and differential geometry Compared to more standard problems in the spectral theory of partial differential operators those operators are not self adjoint and only hypoelliptic. The aim of the analysis is to give as generally as possible an accurate qualitative and quantitative description of the exponential return to the thermodynamical equilibrium While exploring and improving recent results in this direction this volume proposes a review of known techniques on the hypoellipticity of polynomial of vector fields and its global counterpart the global Weyl H rmander pseudo differential calculus the spectral theory of non self adjoint operators the semi classical analysis of Schr dinger type operators the Witten complexes and the Morse inequalities **K3 Projective Models in Scrolls** Trygve Johnsen, Andreas L. Knutsen, 2004

Uniqueness Theorems for Variational Problems by the Method of Transformation Groups Wolfgang Reichel, 2004-05-13 A classical problem in the calculus of variations is the investigation of critical points of functionals cal L

on normed spaces V The present work addresses the question Under what conditions on the functional cal L and the underlying space V does cal L have at most one critical point A sufficient condition for uniqueness is given the presence of a variational sub symmetry i e a one parameter group G of transformations of V which strictly reduces the values of cal L The method of transformation groups is applied to second order elliptic boundary value problems on Riemannian manifolds Further applications include problems of geometric analysis and elasticity **Nonlocal and Fractional Operators** Luisa Beghin, Francesco Mainardi, Roberto Garrappa, 2021-07-23 The purpose of this volume is to explore new bridges between different research areas involved in the theory and applications of the fractional calculus In particular it collects scientific and original contributions to the development of the theory of nonlocal and fractional operators Special attention is given to the applications in mathematical physics as well as in probability Numerical methods aimed to the solution of problems with fractional differential equations are also treated in the book The contributions have been presented during the international workshop Nonlocal and Fractional Operators held in Sapienza University of Rome in April 2019 and dedicated to the retirement of Prof Renato Spigler University Roma Tre Therefore we also wish to dedicate this volume to this occasion in order to celebrate his scientific contributions in the field of numerical analysis and fractional calculus The book is suitable for mathematicians physicists and applied scientists interested in the various aspects of fractional calculus Intelligence and Bioinformatics De-Shuang Huang, George William Irwin, 2006-08-03 This book constitutes the refereed proceedings of the International Conference on Intelligent Computing ICIC 2006 held in Kunming China in August 2006 The book presents 165 revised full papers carefully reviewed Topics covered include ant colony optimization particle swarm optimization swarm intelligence autonomy oriented computing quantum and molecular computations biological and DNA computing intelligent computing in bioinformatics intelligent computing in computational biology and drug design computational genomics and proteomics and more The Valuative Tree Charles Favre, Mattias Jonsson, 2004-08-30 This volume is devoted to a beautiful object called the valuative tree and designed as a powerful tool for the study of singularities in two complex dimensions Its intricate yet manageable structure can be analyzed by both algebraic and geometric means Many types of singularities including those of curves ideals and plurisubharmonic functions can be encoded in terms of positive measures on the valuative tree The construction of these measures uses a natural tree Laplace operator of independent interest Topology of Singular Fibers of Differentiable Maps Osamu Saeki, 2004 Fourier Transforms of <u>Invariant Functions on Finite Reductive Lie Algebras</u> Emmanuel Letellier, 2004-11-15 The Fourier transforms of invariant functions on finite reductive Lie algebras are due to T A Springer 1976 in connection with the geometry of nilpotent orbits In this book the author studies Fourier transforms using Deligne Lusztig induction and the Lie algebra version of Lusztig s character sheaves theory He conjectures a commutation formula between Deligne Lusztig induction and Fourier transforms that he proves in many cases As an application the computation of the values of the trigonometric sums on reductive Lie

algebras is shown to reduce to the computation of the generalized Green functions and to the computation of some fourth roots of unity **Stochastic Methods in Finance** CIME-EMS Summer School, Professor of Finance and Howard J Creekmore Profe Kerry Back, Tomasz R. Bielecki, CIME-EMS School on Stochastic Methods, Christian Hipp, Shige Peng, Walter Schachermayer, 2004

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