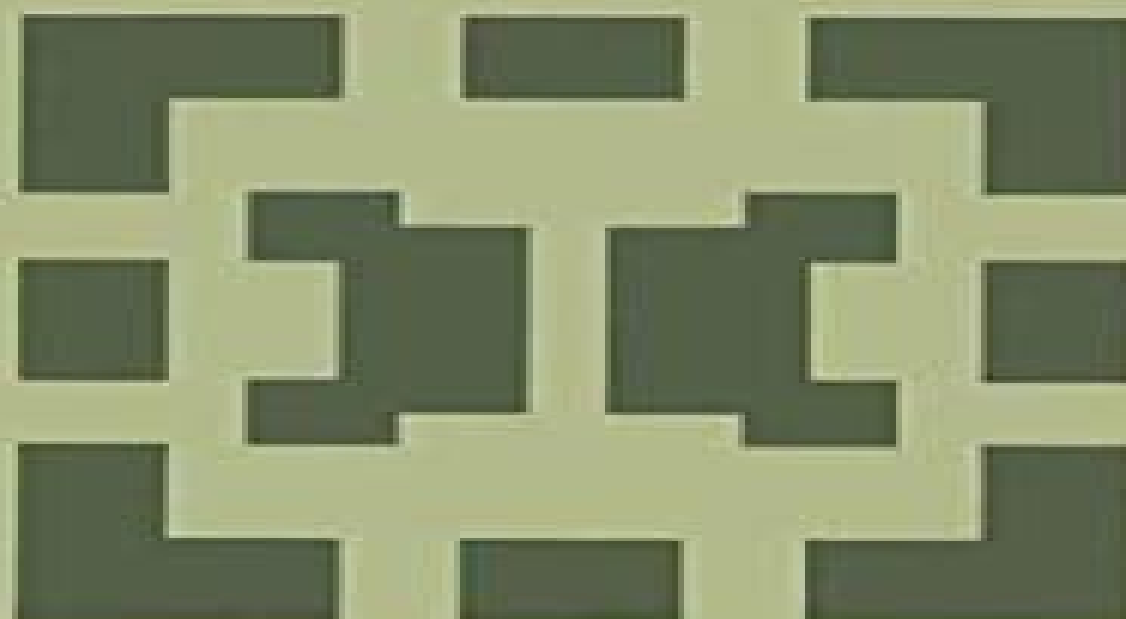


Mathematics and Its Applications

Norman E. Hurt

Quantum Chaos and Mesoscopic Systems

Mathematical Methods in the
Quantum Signatures of Chaos



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Quantum Chaos And Mesoscopic Systems mathematical Methods In The Quantum Signatures Of Chaos

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Quantum Chaos and Quantum Dots Katsuhiko Nakamura,Takahisa Harayama,2004 Dynamics of billiard balls and their role in physics have received wide attention Billiards can nowadays be created as quantum dots in the microscopic world enabling one to envisage the so called quantum chaos i e quantum manifestation of chaos of billiard balls In fact owing to recent progress in advanced technology nanoscale quantum dots such as chaotic stadium and antidot lattices analogous to the Sinai Billiard can be fabricated at the interface of semiconductor heterojunctions This book begins its exploration of the effect of chaotic electron dynamics on ballistic quantum transport in quantum dots with a puzzling experiment on resistance

fluctuations for stadium and circle dots Throughout the text major attention is paid to the semiclassical theory which makes it possible to interpret quantum phenomena in the language of the classical world Chapters one to four are concerned with the elementary statistical methods curvature Lyapunov exponent Kolmogorov Sinai entropy and escape rate which are needed for a semiclassical description of transport in quantum dots Chapters five to ten discuss the topical subjects in the field including the ballistic weak localization Altshuler Aronov Spivak oscillation partial time reversal symmetry persistent current Arnold diffusion and Coulomb blockade

Feynman Integral and Random Dynamics in Quantum Physics Z. Haba, 2013-03-11 The Feynman integral is considered as an intuitive representation of quantum mechanics showing the complex quantum phenomena in a language comprehensible at a classical level It suggests that the quantum transition amplitude arises from classical mechanics by an average over various interfering paths The classical picture suggested by the Feynman integral may be illusory By most physicists the path integral is usually treated as a convenient formal mathematical tool for a quick derivation of useful approximations in quantum mechanics Results obtained in the formalism of Feynman integrals receive a mathematical justification by means of other usually much harder methods In such a case the rigour is achieved at the cost of losing the intuitive classical insight The aim of this book is to formulate a mathematical theory of the Feynman integral literally in the way it was expressed by Feynman at the cost of complexifying the configuration space In such a case the Feynman integral can be expressed by a probability measure The equations of quantum mechanics can be formulated as equations of random classical mechanics on a complex configuration space The opportunity of computer simulations shows an immediate advantage of such a formulation A mathematical formulation of the Feynman integral should not be considered solely as an academic question of mathematical rigour in theoretical physics

Many-Particle Dynamics and Kinetic Equations C. Cercignani, U.I. Gerasimenko, D.Y. Petrina, 2012-12-06 As our title suggests there are two aspects in the subject of this book The first is the mathematical investigation of the dynamics of infinite systems of interacting particles and the description of the time evolution of their states The second is the rigorous derivation of kinetic equations starting from the results of the aforementioned investigation As is well known statistical mechanics started in the last century with some papers written by Maxwell and Boltzmann Although some of their statements seemed statistically obvious we must prove that they do not contradict what mechanics predicts In some cases in particular for equilibrium states it turns out that mechanics easily provides the required justification However things are not so easy if we take a step forward and consider a gas is not in equilibrium as is e.g. the case for air around a flying vehicle Questions of this kind have been asked since the dawn of the kinetic theory of gases especially when certain results appeared to lead to paradoxical conclusions Today this matter is rather well understood and a rigorous kinetic theory is emerging The importance of these developments stems not only from the need of providing a careful foundation of such a basic physical theory but also to exhibit a prototype of a mathematical construct central to the theory of non equilibrium phenomena of

macroscopic size Analytic-Bilinear Approach to Integrable Hierarchies L.V. Bogdanov, 2012-12-06 The subject of this book is the hierarchies of integrable equations connected with the one component and multi component loop groups There are many publications on this subject and it is rather well defined Thus the author would like to explain why he has taken the risk of revisiting the subject The Sato Grassmannian approach and other approaches standard in this context reveal deep mathematical structures in the base of the integrable hierarchies These approaches concentrate mostly on the algebraic picture and they use a language suitable for applications to quantum field theory Another well known approach the α -dressing method developed by S V Manakov and V E Zakharov is oriented mostly to particular systems and exact classes of their solutions There is more emphasis on analytic properties and the technique is connected with standard complex analysis The language of the α -dressing method is suitable for applications to integrable nonlinear PDEs integrable nonlinear discrete equations and as recently discovered for the applications of integrable systems to continuous and discrete geometry The primary motivation of the author was to formalize the approach to integrable hierarchies that was developed in the context of the α -dressing method preserving the analytic structures characteristic for this method but omitting the peculiarities of the constructive scheme And it was desirable to find a start

Optimal Filtering V.N. Fomin, 2012-12-06 This book is devoted to an investigation of some important problems of modern filtering theory concerned with systems of any nature being able to perceive store and process an information and apply it for control and regulation The above quotation is taken from the preface to 27 Despite the fact that filtering theory is largely worked out and its major issues such as the Wiener Kolmogorov theory of optimal filtering of stationary processes and Kalman Bucy recursive filtering theory have become classical a development of the theory is far from complete A great deal of recent activity in this area is observed researchers are trying consistently to generalize famous results extend them to more broad classes of processes realize and justify more simple procedures for processing measurement data in order to obtain more efficient filtering algorithms As to nonlinear filtering it remains much as fragmentary Here much progress has been made by R L Stratonovich and his successors in the area of filtering of Markov processes In this volume an effort is made to advance in certain of these issues The monograph has evolved over many years coming of age by stages First it was an impressive job of gathering together the bulk of the important contributions to estimation theory an understanding and modernization of some of its results and methods with the intention of applying them to recursive filtering problems

Differential Operators and Related Topics V. M. Adamian, 2000 The present book is the first of the two volume Proceedings of the Mark Krein International Conference on Operator Theory and Applications This conference which was dedicated to the 90th Anniversary of the prominent mathematician Mark Krein was held in Odessa Ukraine from 18-22 August 1997 The conference focused on the main ideas methods results and achievements of M G Krein This first volume is devoted to the theory of differential operators and related topics It opens with a description of the conference biographical material and a number of survey papers about the work of M

G Krein The main part of the book consists of original research papers presenting the state of the art in the area of differential operators The second volume of these proceedings entitled Operator Theory and related Topics concerns the other aspects of the conference The two volumes will be of interest to a wide range of readership in pure and applied mathematics physics and engineering sciences Table of Contents Preface v Table of Contents VII Picture of M G Krein XI About the Mark Krein International Conference Mark Grigorevich Krein A short biography 5 I Gohberg The Seminar on Ship Hydrodynamics Organized by M G Krein 9 v G Sizov Review Papers The Works of M G Krein on Eigenfunction Expansion for Selfadjoint Operators and their Applications and Development 21 Yu M Berezansky M G Krein and the Extension Theory of Symmetric Operators

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The British National Bibliography Arthur James Wells, 1998 Annales de la Fondation Louis de Broglie Fondation Louis de Broglie, 1997 *Whitaker's Books in Print*, 1998 **Forthcoming Books** Rose Arny, 1997 Quantum Signatures of Chaos Fritz Haake, 2013-03-09 The warm reception of the first edition as well as the tumultuous development of the field of quantum chaos have tempted me to rewrite this book and include some of the important progress made during the past decade Now we know that quantum signatures of chaos are paralleled by wave signatures Whatever is undergoing wavy space-time variations be it sound, electro-magnetism or quantum amplitudes each shows exactly the same manifestations of chaos The common origin is nonseparability of the pertinent wave equation that latter definition of chaos incidentally also applies to classical mechanics if we see the Hamilton-Jacobi equation as the limiting case of a wave equation At any rate

drums concert halls oscillating quartz blocks microwave and optical oscillators electrons moving ballistically or with impurity scattering through mesoscopic devices all provide evidence and data for wave or quantum chaos All of these systems have deep analogies with billiards much as the latter may have appeared of no more than academic interest only a decade ago Of course molecular atomic and nuclear spectroscopy also remain witnesses of chaos while the chromodynamic innards of nucleons are beginning to attract interest as methods of treatment become available *Brinkman's cumulatieve catalogus van boeken*, 1997 Voorts een alphabetische lijst van Nederlandsche boeken in België uitgegeven

Quantum versus Chaos K. Nakamura, 1997-05-31 Quantum and chaos key concepts in contemporary science are incompatible by nature This volume presents an investigation into quantum transport in mesoscopic or nanoscale systems which are classically chaotic and shows the success and failure of quantum semiclassical and random matrix theories in dealing with questions emerging from the mesoscopic cosmos These traditional theories are critically analysed and this leads to a new direction To reconcile quantum with chaos and to restore genuine temporal chaos in quantum systems a time discrete variant of quantum dynamics is proposed Audience This book will be of interest to graduate students and researchers in physics chemistry and mathematics whose work involves fundamental questions of quantum mechanics in chaotic systems

New Directions in Quantum Chaos Società italiana di fisica, 2000 The rapid progress of the research field of quantum chaos and its applications called for a book that keeps students abreast of the new developments and at the same time provides a solid basis in subjects which form the canon of the field This book discusses the following topics Spectral statistics and their semiclassical interpretation in terms of the Gutzwiller trace formula Quantum chaos and its applications in mesoscopic physics Spectral statistics and conductance fluctuations and Quantum chaos in systems with many degrees of freedom The book connects and continues past and present achievements and prepares the ground for a future full of intriguing and important developments

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Introduction

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