



Yakov Pesin

Lectures on partial hyperbolicity and stable ergodicity



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Lectures On Partial Hyperbolicity And Stable Ergodicity

Camillo De Lellis



Lectures On Partial Hyperbolicity And Stable Ergodicity:

Lectures on Partial Hyperbolicity and Stable Ergodicity Ya. B. Pesin, 2004 This book is an introduction to the modern theory of partial hyperbolicity with applications to stable ergodicity theory of smooth dynamical systems It provides a systematic treatment of the theory and describes all the basic concepts and major results obtained in the area since its creation in the early 1970s It can be used as a textbook for a graduate student course and is also of interest to professional mathematicians

Lectures on Partial Hyperbolicity and Stable Ergodicity Yakov B. Pesin, 2004 Partially Hyperbolic Dynamics, Laminations, and Teichmüller Flow Giovanni Forni, This volume collects a set of contributions by participants of the Workshop Partially hyperbolic dynamics laminations and Teichmüller flow held at the Fields Institute in Toronto in January 2006 The Workshop brought together several leading experts in two very active fields of contemporary dynamical systems theory partially hyperbolic dynamics and Teichmüller dynamics They are unified by ideas coming from the theory of laminations and foliations dynamical hyperbolicity and ergodic theory These are the main themes of the current volume The volume contains both surveys and research papers on non uniform and partial hyperbolicity on dominated splitting and beyond in Part I Teichmüller dynamics with applications to interval exchange transformations and on the topology of moduli spaces of quadratic differentials in Part II foliations and laminations and other miscellaneous papers in Part III Taken together these papers provide a snapshot of the state of the art in some of the most active topics at the crossroads between dynamical systems smooth ergodic theory geometry and topology suitable for advanced graduate students and researchers Non specialists will find the extensive in depth surveys especially useful

Ergodic Theory Cesar E. Silva, Alexandre I. Danilenko, 2023-07-31 This volume in the Encyclopedia of Complexity and Systems Science Second Edition covers recent developments in classical areas of ergodic theory including the asymptotic properties of measurable dynamical systems spectral theory entropy ergodic theorems joinings isomorphism theory recurrence nonsingular systems It enlightens connections of ergodic theory with symbolic dynamics topological dynamics smooth dynamics combinatorics number theory pressure and equilibrium states fractal geometry chaos In addition the new edition includes dynamical systems of probabilistic origin ergodic aspects of Sarnak's conjecture translation flows on translation surfaces complexity and classification of measurable systems operator approach to asymptotic properties interplay with operator algebras

Mathematics of Complexity and Dynamical Systems Robert A. Meyers, 2011-10-05 Mathematics of Complexity and Dynamical Systems is an authoritative reference to the basic tools and concepts of complexity systems theory and dynamical systems from the perspective of pure and applied mathematics Complex systems are systems that comprise many interacting parts with the ability to generate a new quality of collective behavior through self organization e g the spontaneous formation of temporal spatial or functional structures These systems are often characterized by extreme sensitivity to initial conditions as well as emergent behavior that are not readily predictable or even completely deterministic The more than 100 entries in

this wide ranging single source work provide a comprehensive explication of the theory and applications of mathematical complexity covering ergodic theory fractals and multifractals dynamical systems perturbation theory solitons systems and control theory and related topics Mathematics of Complexity and Dynamical Systems is an essential reference for all those interested in mathematical complexity from undergraduate and graduate students up through professional researchers

Introduction to Smooth Ergodic Theory Luís Barreira, Yakov Pesin, 2023-05-19 This book is the first comprehensive introduction to smooth ergodic theory It consists of two parts the first introduces the core of the theory and the second discusses more advanced topics In particular the book describes the general theory of Lyapunov exponents and its applications to the stability theory of differential equations the concept of nonuniform hyperbolicity stable manifold theory with emphasis on absolute continuity of invariant foliations and the ergodic theory of dynamical systems with nonzero Lyapunov exponents A detailed description of all the basic examples of conservative systems with nonzero Lyapunov exponents including the geodesic flows on compact surfaces of nonpositive curvature is also presented There are more than 80 exercises The book is aimed at graduate students specializing in dynamical systems and ergodic theory as well as anyone who wishes to get a working knowledge of smooth ergodic theory and to learn how to use its tools It can also be used as a source for special topics courses on nonuniform hyperbolicity The only prerequisite for using this book is a basic knowledge of real analysis measure theory differential equations and topology although the necessary background definitions and results are provided In this second edition the authors improved the exposition and added more exercises to make the book even more student oriented They also added new material to bring the book more in line with the current research in dynamical systems

The Abel Prize 2013-2017 Helge Holden, Ragni Piene, 2019-02-23 The book presents the winners of the Abel Prize in mathematics for the period 2013-17 Pierre Deligne 2013 Yakov G Sinai 2014 John Nash Jr and Louis Nirenberg 2015 Sir Andrew Wiles 2016 and Yves Meyer 2017 The profiles feature autobiographical information as well as a scholarly description of each mathematician's work In addition each profile contains a Curriculum Vitae a complete bibliography and the full citation from the prize committee The book also includes photos for the period 2003-2017 showing many of the additional activities connected with the Abel Prize As an added feature video interviews with the Laureates as well as videos from the prize ceremony are provided at an accompanying website <http://extras.springer.com> This book follows on *The Abel Prize 2003-2007 The First Five Years* Springer 2010 and *The Abel Prize 2008-2012* Springer 2014 which profile the work of the previous Abel Prize winners

Handbook of Dynamical Systems A. Katok, B. Hasselblatt, 2005-12-17 This second half of Volume 1 of this Handbook follows Volume 1A which was published in 2002 The contents of these two tightly integrated parts taken together come close to a realization of the program formulated in the introductory survey *Principal Structures* of Volume 1A The present volume contains surveys on subjects in four areas of dynamical systems Hyperbolic dynamics parabolic dynamics ergodic theory and infinite dimensional dynamical systems partial differential equations Written by

experts in the field The coverage of ergodic theory in these two parts of Volume 1 is considerably more broad and thorough than that provided in other existing sources The final cluster of chapters discusses partial differential equations from the point of view of dynamical systems

Lozi Mappings Zeraoulia Elhadj, 2013-08-17 This book is a comprehensive collection of known results about the Lozi map a piecewise affine version of the Henon map Henon map is one of the most studied examples in dynamical systems and it attracts a lot of attention from researchers however it is difficult to analyze analytically Simpler structure of the Lozi map makes it more suitable for

Lectures on Dynamical Systems Eduard Zehnder, 2010 This book originated from an introductory lecture course on dynamical systems given by the author for advanced students in mathematics and physics at ETH Zurich The first part centers around unstable and chaotic phenomena caused by the occurrence of homoclinic points The existence of homoclinic points complicates the orbit structure considerably and gives rise to invariant hyperbolic sets nearby The orbit structure in such sets is analyzed by means of the shadowing lemma whose proof is based on the contraction principle This lemma is also used to prove S Smale's theorem about the embedding of Bernoulli systems near homoclinic orbits The chaotic behavior is illustrated in the simple mechanical model of a periodically perturbed mathematical pendulum The second part of the book is devoted to Hamiltonian systems The Hamiltonian formalism is developed in the elegant language of the exterior calculus The theorem of V Arnold and R Jost shows that the solutions of Hamiltonian systems which possess sufficiently many integrals of motion can be written down explicitly and for all times The existence proofs of global periodic orbits of Hamiltonian systems on symplectic manifolds are based on a variational principle for the old action functional of classical mechanics The necessary tools from variational calculus are developed There is an intimate relation between the periodic orbits of Hamiltonian systems and a class of symplectic invariants called symplectic capacities From these symplectic invariants one derives surprising symplectic rigidity phenomena This allows a first glimpse of the fast developing new field of symplectic topology

Hyperbolic Chaos Sergey P. Kuznetsov, 2012-03-20 Hyperbolic Chaos A Physicist's View presents recent progress on uniformly hyperbolic attractors in dynamical systems from a physical rather than mathematical perspective e g the Plykin attractor the Smale Williams solenoid The structurally stable attractors manifest strong stochastic properties but are insensitive to variation of functions and parameters in the dynamical systems Based on these characteristics of hyperbolic chaos this monograph shows how to find hyperbolic chaotic attractors in physical systems and how to design a physical systems that possess hyperbolic chaos This book is designed as a reference work for university professors and researchers in the fields of physics mechanics and engineering Dr Sergey P Kuznetsov is a professor at the Department of Nonlinear Processes Saratov State University Russia

Modern Theory of Dynamical Systems Anatole Katok, Yakov Pesin, Federico Rodriguez Hertz, 2017-06-19 This volume is a tribute to one of the founders of modern theory of dynamical systems the late Dmitry Victorovich Anosov It contains both original papers and surveys written by some distinguished experts in dynamics which are related to important themes of

Anosov's work as well as broadly interpreted further crucial developments in the theory of dynamical systems that followed Anosov's original work. Also included is an article by A. Katok that presents Anosov's scientific biography and a picture of the early development of hyperbolicity theory in its various incarnations: complete and partial uniform and nonuniform. *Open Problems in Topology II* Elliott M. Pearl, 2011-08-11 This volume is a collection of surveys of research problems in topology and its applications. The topics covered include general topology, set-theoretic topology, continuum theory, topological algebra, dynamical systems, computational topology, and functional analysis. New surveys of research problems in topology. New perspectives on classic problems. Representative surveys of research groups from all around the world. *Hamiltonian Dynamical Systems and Applications* Walter Craig, 2008-02-17 This volume is the collected and extended notes from the lectures on Hamiltonian dynamical systems and their applications that were given at the NATO Advanced Study Institute in Montreal in 2007. Many aspects of the modern theory of the subject were covered at this event, including low-dimensional problems. Applications are also presented to several important areas of research, including problems in classical mechanics, continuum mechanics, and partial differential equations. **Robust Chaos and Its Applications** Elhadj Zeraoulia, Julien C. Sprott, 2012 Robust chaos is defined by the absence of periodic windows and coexisting attractors in some neighborhoods in the parameter space of a dynamical system. This unique book explores the definition, sources, and roles of robust chaos. The book is written in a reasonably self-contained manner and aims to provide students and researchers with the necessary understanding of the subject. Most of the known results, experiments, and conjectures about chaos in general and about robust chaos in particular are collected here in a pedagogical form. Many examples of dynamical systems ranging from purely mathematical to natural and social processes displaying robust chaos are discussed in detail. At the end of each chapter is a set of exercises and open problems, more than 260 in the whole book, intended to reinforce the ideas and provide additional experiences for both readers and researchers in nonlinear science in general and chaos theory in particular. **Fukaya Categories and Picard-Lefschetz Theory** Paul Seidel, 2008 The central objects in the book are Lagrangian submanifolds and their invariants, such as Floer homology, and its multiplicative structures, which together constitute the Fukaya category. The relevant aspects of pseudo-holomorphic curve theory are covered in some detail, and there is also a self-contained account of the necessary homological algebra. Generally, the emphasis is on simplicity rather than generality. The last part discusses applications to Lefschetz fibrations and contains many previously unpublished results. The book will be of interest to graduate students and researchers in symplectic geometry and mirror symmetry. **Rectifiable Sets, Densities and Tangent Measures** Camillo De Lellis, 2008 The characterization of rectifiable sets through the existence of densities is a pearl of geometric measure theory. The difficult proof due to Preiss relies on many beautiful and deep ideas and novel techniques. Some of them have already proven useful in other contexts, whereas others have not yet been exploited. These notes give a simple and short presentation of the former and provide some perspective of the latter. This text emerged from a

course on rectifiability given at the University of Zurich It is addressed both to researchers and students the only prerequisite is a solid knowledge in standard measure theory The first four chapters give an introduction to rectifiable sets and measures in Euclidean spaces covering classical topics such as the area formula the theorem of Marstrand and the most elementary rectifiability criteria The fifth chapter is dedicated to a subtle rectifiability criterion due to Marstrand and generalized by Mattila and the last three focus on Preiss result The aim is to provide a self contained reference for anyone interested in an overview of this fascinating topic

High Risk Scenarios and Extremes A. A. Balkema, Paul Embrechts, 2007

Quantitative Risk Management QRM has become a field of research of considerable importance to numerous areas of application including insurance banking energy medicine reliability Mainly motivated by examples from insurance and finance the authors develop a theory for handling multivariate extremes The approach borrows ideas from portfolio theory and aims at an intuitive approach in the spirit of the Peaks over Thresholds method The point of view is geometric It leads to a probabilistic description of what in QRM language may be referred to as a high risk scenario the conditional behaviour of risk factors given that a large move on a linear combination portfolio say has been observed The theoretical models which describe such conditional extremal behaviour are characterized and their relation to the limit theory for coordinatewise maxima is explained The book is based on a graduate course on point processes and extremes It could form the basis for an advanced course on multivariate extreme value theory or a course on mathematical issues underlying risk Students in statistics and finance with a mathematical quantitative background are the prime audience Actuaries and risk managers involved in data based risk analysis will find the models discussed in the book stimulating The text contains many indications for further research

BOOK JACKET *Invariant Manifolds and Dispersive Hamiltonian Evolution Equations* Kenji Nakanishi, Wilhelm Schlag, 2011 The notion of an invariant manifold arises naturally in the asymptotic stability analysis of stationary or standing wave solutions of unstable dispersive Hamiltonian evolution equations such as the focusing semilinear Klein Gordon and Schrodinger equations This is due to the fact that the linearized operators about such special solutions typically exhibit negative eigenvalues a single one for the ground state which lead to exponential instability of the linearized flow and allows for ideas from hyperbolic dynamics to enter One of the main results proved here for energy subcritical equations is that the center stable manifold associated with the ground state appears as a hyper surface which separates a region of finite time blowup in forward time from one which exhibits global existence and scattering to zero in forward time The authors entire analysis takes place in the energy topology and the conserved energy can exceed the ground state energy only by a small amount This monograph is based on recent research by the authors The proofs rely on an interplay between the variational structure of the ground states and the nonlinear hyperbolic dynamics near these states A key element in the proof is a virial type argument excluding almost homoclinic orbits originating near the ground states and returning to them possibly after a long excursion These lectures are suitable for graduate students and researchers in partial differential

equations and mathematical physics For the cubic Klein Gordon equation in three dimensions all details are provided including the derivation of Strichartz estimates for the free equation and the concentration compactness argument leading to scattering due to Kenig and Merle

Invitation to Topological Robotics Michael Farber, 2008 This book discusses several selected topics of a new emerging area of research on the interface between topology and engineering The first main topic is topology of configuration spaces of mechanical linkages These manifolds arise in various fields of mathematics and in other sciences e g engineering statistics molecular biology To compute Betti numbers of these configuration spaces the author applies a new technique of Morse theory in the presence of an involution A significant result of topology of linkages presented in this book is a solution of a conjecture of Kevin Walker which states that the relative sizes of bars of a linkage are determined up to certain equivalence by the cohomology algebra of the linkage configuration space This book also describes a new probabilistic approach to topology of linkages which treats the bar lengths as random variables and studies mathematical expectations of Betti numbers The second main topic is topology of configuration spaces associated to polyhedra The author gives an account of a beautiful work of S R Gal suggesting an explicit formula for the generating function encoding Euler characteristics of these spaces Next the author studies the knot theory of a robot arm focusing on a recent important result of R Connelly E Demain and G Rote Finally he investigates topological problems arising in the theory of robot motion planning algorithms and studies the homotopy invariant TC X measuring navigational complexity of configuration spaces This book is intended as an appetizer and will introduce the reader to many fascinating topological problems motivated by engineering

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