Helmut Hofer
Eduard Zehnder

Symplectic Invariants and Hamiltonian Dynamics

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Albert Fathi,Yong-Geun Oh,Claude Viterbo

Symplectic Invariants And Hamiltonian Dynamics:

   Symplectic Invariants and Hamiltonian Dynamics Helmut Hofer,Eduard Zehnder,2011-03-31 The discoveries of the last decades have opened new perspectives for the old field of Hamiltonian systems and led to the creation of a new field symplectic topology Surprising rigidity phenomena demonstrate that the nature of symplectic mappings is very different from that of volume preserving mappings This raises new questions many of them still unanswered On the other hand analysis of an old variational principle in classical mechanics has established global periodic phenomena in Hamiltonian systems As it turns out these seemingly different phenomena are mysteriously related One of the links is a class of symplectic invariants called symplectic capacities These invariants are the main theme of this book which includes such topics as basic symplectic geometry symplectic capacities and rigidity periodic orbits for Hamiltonian systems and the action principle a bi invariant metric on the symplectic diffeomorphism group and its geometry symplectic fixed point theory the Arnold conjectures and first order elliptic systems and finally a survey on Floer homology and symplectic homology The exposition is self contained and addressed to researchers and students from the graduate level onwards   Symplectic Invariants and Hamiltonian Dynamics Helmut Hofer,Eduard Zehnder,2011-04-02 The discoveries of the last decades have opened new perspectives for the old field of Hamiltonian systems and led to the creation of a new field symplectic topology Surprising rigidity phenomena demonstrate that the nature of symplectic mappings is very different from that of volume preserving mappings This raises new questions many of them still unanswered On the other hand analysis of an old variational principle in classical mechanics has established global periodic phenomena in Hamiltonian systems As it turns out these seemingly different phenomena are mysteriously related One of the links is a class of symplectic invariants called symplectic capacities These invariants are the main theme of this book which includes such topics as basic symplectic geometry symplectic capacities and rigidity periodic orbits for Hamiltonian systems and the action principle a bi invariant metric on the symplectic diffeomorphism group and its geometry symplectic fixed point theory the Arnold conjectures and first order elliptic systems and finally a survey on Floer homology and symplectic homology The exposition is self contained and addressed to researchers and students from the graduate level onwards   **Symplectic Invariants and Hamiltonian Dynamics** Helmut Hofer,Eduard Zehnder,2011-04-02   Symplectic Invariants and Hamiltonian Dynamics Helmut Hofer,Eduard Zehnder,2012-12-06 The discoveries of the past decade have opened new perspectives for the old field of Hamiltonian systems and led to the creation of a new field symplectic topology Surprising rigidity phenomena demonstrate that the nature of symplectic map pings is very different from that of volume preserving mappings which raised new questions many of them still unanswered On the other hand due to the analysis of an old variational principle in classical mechanics global periodic phenomena in Hamiltonian systems have been established As it turns out these seemingly differ ent phenomena are mysteriously related One of the links is a class of symplectic invariants called symplectic capacities These invariants are the

main theme of this book which grew out of lectures given by the authors at Rutgers University the RUB Bochum and at the ETH Zurich 1991 and also at the Borel Seminar in Bern 1992 Since the lectures did not require any previous knowledge only a few and rather elementary topics were selected and proved in detail Moreover our se lection has been prompted by a single principle the action principle of mechanics The action functional for loops in the phase space given by 1 Fh J pdq J H t Y t dt Y 0 differs from the old Hamiltonian principle in the configuration space defined by a Lagrangian The critical points of F are those loops Y which solve the Hamiltonian equations associated with the Hamiltonian H and hence are the periodic orbits

Geometric Methods for Discrete Dynamical Systems Robert W. Easton,1998-02-26 This book looks at dynamics as an iteration process where the output of a function is fed back as an input to determine the evolution of an initial state over time The theory examines errors which arise from round off in numerical simulations from the inexactness of mathematical models used to describe physical processes and from the effects of external controls The author provides an introduction accessible to beginning graduate students and emphasizing geometric aspects of the theory Conley s ideas about rough orbits and chain recurrence play a central role in the treatment The book will be a useful reference for mathematicians scientists and engineers studying this field and an ideal text for graduate courses in dynamical systems **A Celebration of John F. Nash Jr.** Harold William Kuhn,Louis Nirenberg,Peter Sarnak,1996 This collection celebrates the pathbreaking work in game theory and mathematics of John F Nash Jr winner of the 1994 Nobel Prize in Economics Nash s analysis of equilibria in the theory of non cooperative games has had a major impact on modern economic theory This book also published as volume 81 of the Duke Mathematical Journal includes an important but previously unpublished paper by Nash the proceedings of the Nobel seminar held in Stockholm on December 8 1994 in his honor and papers by distinguished mathematicians and economists written in response to and in honor of Nash s pioneering contributions to those fields In 1950 when he was 22 years old Nash presented his key idea the Nash equilibrium in the Ph D thesis he submitted to the Mathematics Department at Princeton University In that paper he defined a new concept of equilibrium and used methods from topology to prove the existence of an equilibrium point for n person finite non cooperative games that is for games in which the number of possible strategies are limited no communication is allowed between the players and n represents the number of players The Nash equilibrium point is reached when none of the players can improve their position by changing strategies By taking into account situations involving more than two players specifically the general n player game Nash built significantly on the previous work of John Von Neumann and Oskar Morgenstern Contributors Abbas Bahri Eric A Carlen Ennio De Giorgi Charles Fefferman Srihari Govidan John C Harsanyi H Hoffer Carlos E Kenig S Klainerman Harold F Kuhn Michael Loss William F Lucas M Machedon Roger B Myerson Raghavan Narasimhan John F Nash Jr Louis Nirenberg Jill Pipher Ze v Rudnick Peter Sarnak Michael Shub Steve Smale Robert Wilson K Wysocki E Zehnder *The Floer Memorial Volume* Helmut Hofer,Clifford H. Taubes,Alan Weinstein,Eduard Zehnder,2012-06-06 Andreas Floer died on May 15 1991 an

untimely and tragic death His visions and far reaching contributions have significantly influenced the developments of mathematics His main interests centered on the fields of dynamical systems symplectic geometry Yang Mills theory and low dimensional topology Motivated by the global existence problem of periodic solutions for Hamiltonian systems and starting from ideas of Conley Gromov and Witten he developed his Floer homology providing new powerful methods which can be applied to problems inaccessible only a few years ago This volume opens with a short biography and three hitherto unpublished papers of Andreas Floer It then presents a collection of invited contributions and survey articles as well as research papers on his fields of interest bearing testimony of the high esteem and appreciation this brilliant mathematician enjoyed among his colleagues Authors include A Floer V I Arnold M Atiyah M Audin D M Austin S M Bates P J Braam M Chaperon R L Cohen G Dell Antonio S K Donaldson B D Onofrio I Ekeland Y Eliashberg K D Ernst R Finthushel A B Givental H Hofer J D S Jones I McAllister D McDuff Y G Oh L Polterovich D A Salamon G B Segal R Stern C H Taubes C Viterbo A Weinstein E Witten E Zehnder **Introduction to the h-Principle** Y. Eliashberg,Nikolai M. Mishachev,2002 The latest volume in the AMS s high profile GSM series The book presents a very accessible exposition of a powerful but difficult to explain method of solving Partial Differentiel Equations Would make an excellent text for courses on modern methods for solvng Partial Differential Equations Very readable treatise of an important and remarkable technique Strong bookstore candidate **Handbook of Differential Geometry** Franki J.E. Dillen,Leopold C.A. Verstraelen,2005-11-29 In the series of volumes which together will constitute the Handbook of Differential Geometry we try to give a rather complete survey of the field of differential geometry The different chapters will both deal with the basic material of differential geometry and with research results old and recent All chapters are written by experts in the area and contain a large bibliography In this second volume a wide range of areas in the very broad field of differential geometry is discussed as there are Riemannian geometry Lorentzian geometry Finsler geometry symplectic geometry contact geometry complex geometry Lagrange geometry and the geometry of foliations Although this does not cover the whole of differential geometry the reader will be provided with an overview of some its most important areas Written by experts and covering recent research Extensive bibliography Dealing with a diverse range of areas Starting from the basics **European Congress of Mathematics** Carles Casacuberta,Rosa M. Miro-Roig,Joan Verdera,Sebastia Xambo-Descamps,2012-12-06 This is the second volume of the proceedings of the third European Congress of Mathematics Volume I presents the speeches delivered at the Congress the list of lectures and short summaries of the achievements of the prize winners as well as papers by plenary and parallel speakers The second volume collects articles by prize winners and speakers of the mini symposia This two volume set thus gives an overview of the state of the art in many fields of mathematics and is therefore of interest to every professional mathematician **Differential Equations: La Pietra 1996** Peter D. Lax,S. R. S. Varadhan,1999 The 11 papers discuss analysis partial differential equations applied mathematics and scientific computing focusing on the work of Peter Lax and Louis Nirenberg whose 70th birthdays

occasioned the conference Specific topics include viscosity solutions for the porous medium equation holomorphic curves in contact dynamics and minimizing volume among Lagrangian submanifolds No index Member prices are 31 for institutions and 23 or individuals Annotation copyrighted by Book News Inc Portland OR **Modern Methods of Analytical Mechanics and their Applications** Valentin V. Rumyantsev,Alexander V. Karapetyan,2014-05-04 The volume aims at giving a comprehensive and up to date view of modern methods of analytical mechanics general equations invariant objects stability and bifurcations and their applications rigid body dynamics celestial mechanics multibody systems etc The course is at an advanced level It is designed for postgraduate students research engineers and academics that are familiar with basic concepts of analytical dynamics and stability theory Although the course deals with mechanical problems most of the concepts and methods involved are equally applicated to general dynamical systems **Complex Analysis and Dynamical Systems VII** Mark L. Agranovsky,Matania Ben-Artz,Catherine Bénéteau,Lavi Karp,Dmitry Khavinson,Simeon Reich,David Shkheoit,Gilbert Weinstein,Lawrence Zalcman,2017 A co publication of the AMS and Bar Ilan University This volume contains the proceedings of the Seventh International Conference on Complex Analysis and Dynamical Systems held from May 10 15 2015 in Nahariya Israel The papers in this volume range over a wide variety of topics in the interaction between various branches of mathematical analysis Taken together the articles collected here provide the reader with a panorama of activity in complex analysis geometry harmonic analysis and partial differential equations drawn by a number of leading figures in the field They testify to the continued vitality of the interplay between classical and modern analysis *Special Metrics and Group Actions in Geometry* Simon G. Chiossi,Anna Fino,Emilio Musso,Fabio Podestà,Luigi Vezzoni,2017-11-27 The volume is a follow up to the INdAM meeting Special metrics and quaternionic geometry held in Rome in November 2015 It offers a panoramic view of a selection of cutting edge topics in differential geometry including 4 manifolds quaternionic and octonionic geometry twistor spaces harmonic maps spinors complex and conformal geometry homogeneous spaces and nilmanifolds special geometries in dimensions 5 8 gauge theory symplectic and toric manifolds exceptional holonomy and integrable systems The workshop was held in honor of Simon Salamon a leading international scholar at the forefront of academic research who has made significant contributions to all these subjects The articles published here represent a compelling testimony to Salamon s profound and longstanding impact on the mathematical community Target readership includes graduate students and researchers working in Riemannian and complex geometry Lie theory and mathematical physics Stability and Bifurcation Theory for Non-Autonomous Differential Equations Anna Capietto,Peter Kloeden,Jean Mawhin,Sylvia Novo,Miguel Ortega,2012-12-14 This volume contains the notes from five lecture courses devoted to nonautonomous differential systems in which appropriate topological and dynamical techniques were described and applied to a variety of problems The courses took place during the C I M E Session Stability and Bifurcation Problems for Non Autonomous Differential Equations held in Cetraro Italy June 19 25 2011 Anna Capietto and Jean Mawhin lectured on

nonlinear boundary value problems they applied the Maslov index and degree theoretic methods in this context Rafael Ortega discussed the theory of twist maps with nonperiodic phase and presented applications Peter Kloeden and Sylvia Novo showed how dynamical methods can be used to study the stability bifurcation properties of bounded solutions and of attracting sets for nonautonomous differential and functional differential equations The volume will be of interest to all researchers working in these and related fields   Symplectic Topology and Measure Preserving Dynamical Systems Albert Fathi,Yong-Geun Oh,Claude Viterbo,2010-04-09 The papers in this volume were presented at the AMS IMS SIAM Joint Summer Research Conference on Symplectic Topology and Measure Preserving Dynamical Systems held in Snowbird Utah in July 2007 The aim of the conference was to bring together specialists of symplectic topology and of measure preserving dynamics to try to connect these two subjects One of the motivating conjectures at the interface of these two fields is the question of whether the group of area preserving homeomorphisms of the 2 disc is or is not simple For diffeomorphisms it was known that the kernel of the Calabi invariant is a normal proper subgroup so the group of area preserving diffeomorphisms is not simple Most articles are related to understanding these and related questions in the framework of modern symplectic topology   Lectures on Symplectic Geometry Ana Cannas da Silva,2004-10-27 The goal of these notes is to provide a fast introduction to symplectic geometry for graduate students with some knowledge of differential geometry de Rham theory and classical Lie groups This text addresses symplectomorphisms local forms contact manifolds compatible almost complex structures Kaehler manifolds hamiltonian mechanics moment maps symplectic reduction and symplectic toric manifolds It contains guided problems called homework designed to complement the exposition or extend the reader s understanding There are by now excellent references on symplectic geometry a subset of which is in the bibliography of this book However the most efficient introduction to a subject is often a short elementary treatment and these notes attempt to serve that purpose This text provides a taste of areas of current research and will prepare the reader to explore recent papers and extensive books on symplectic geometry where the pace is much faster For this reprint numerous corrections and clarifications have been made and the layout has been improved   **Encyclopedia of Nonlinear Science** Alwyn Scott,2006-05-17 In 438 alphabetically arranged essays this work provides a useful overview of the core mathematical background for nonlinear science as well as its applications to key problems in ecology and biological systems chemical reaction diffusion problems geophysics economics electrical and mechanical oscillations in engineering systems lasers and nonlinear optics fluid mechanics and turbulence and condensed matter physics among others   *Nonequilibrium and Irreversibility* Giovanni Gallavotti,2025-05-31 This 2nd edition of the book focuses on the properties of stationary states in chaotic systems of particles or fluids setting aside the theory of how these states are achieved The second edition has been thoroughly revised and includes numerous corrections It incorporates recent findings with particular emphasis on the equivalence between irreversible and reversible equations The ongoing debate over reversibility and irreversible behavior is

frequently discussed The book seeks to unify the study of stationary nonequilibrium states with that of equilibrium states using the paradigm offered by the simplest chaotic systems specifically Anosov systems The book begins by exploring the time invariant distributions relevant to physics A distinctive feature of this work is its historical approach To clarify foundational issues the author analyzes the works of pioneering figures like Boltzmann Clausius and Maxwell including translated excerpts of key historical documents Additionally the author establishes a close connection between the treatment of irreversible phenomena in statistical mechanics and the theory of chaotic systems particularly at and beyond the onset of turbulence as developed by Sinai Ruelle and Bowen SRB and others Arguments are presented to strongly support the perspective that stationary states whether in equilibrium or not can be described in a unified framework The book offers extensive coverage of contemporary research presented in sufficient detail to give advanced students a sense of the ongoing research directions in this dynamic field Proofs of theorems are generally limited to heuristic outlines favoring the presentation of concepts and providing references for further study thereby avoiding an overload of technical detail in the main text   **Beyond Peaceful Coexistence; The Emergence Of Space, Time And Quantum** Ignazio Licata,2016-03-30 It may be that a real synthesis of quantum and relativity theories requires not just technical developments but radical conceptual renewal J S BellBeyond Peaceful Coexistence The Emergence of Space Time and Quantum brings together leading academics in mathematics and physics to address going beyond the peaceful coexistence of space time descriptions local and continuous ones and quantum events discrete and non commutative ones Formidable challenges waiting beyond the Standard Model require a new semantic consistency within the theories in order to build new ways of understanding working and relating to them The original A Shimony meaning of the peaceful coexistence the collapse postulate and non locality appear to be just the tip of the iceberg in relation to more serious fundamental issues across physics as a whole Chapters in this book present perspectives on emergent discrete geometrodynamic and topological approaches as well as a new interpretative spectrum of quantum theories after Copenhagen discrete time theories time less approaches and super fluid pictures of space time As well as stimulating further research among established theoretical physicists the book can also be used in courses on the philosophy and mathematics of theoretical physics

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