

Modern Birkhäuser Classics

Helmut Hofer
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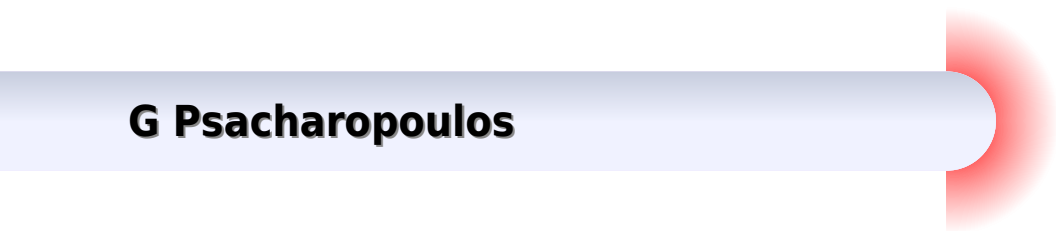
Symplectic Invariants and Hamiltonian Dynamics

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G Psacharopoulos



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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

The Restricted Three-Body Problem and Holomorphic Curves Urs Frauenfelder, Otto van Koert, 2018-08-29 The book serves as an introduction to holomorphic curves in symplectic manifolds focusing on the case of four dimensional symplectizations and symplectic cobordisms and their applications to celestial mechanics The authors study the restricted three body problem using recent techniques coming from the theory of pseudo holomorphic curves The book starts with an introduction to relevant topics in symplectic topology and Hamiltonian dynamics before introducing some well known systems from celestial mechanics such as the Kepler problem and the restricted three body problem After an overview of different regularizations of these systems the book continues with a discussion of periodic orbits and global surfaces of section for these and more general systems The second half of the book is primarily dedicated to developing the theory of holomorphic curves specifically the theory of fast finite energy planes to elucidate the proofs of the existence results for global surfaces of section stated earlier The book closes with a chapter summarizing the results of some numerical experiments related to finding periodic orbits and global surfaces of sections in the restricted three body problem This book is also part of the Virtual Series on Symplectic Geometry <http://www.springer.com/series/16019>

Symplectic Geometry Helmut Hofer, Alberto Abbondandolo, Urs Frauenfelder, Felix Schlenk, 2022-12-05 Over the course of his distinguished career Claude Viterbo has made a number of groundbreaking contributions in the development of symplectic geometry topology and Hamiltonian dynamics The chapters in this volume compiled on the occasion of his 60th birthday are written by distinguished mathematicians and pay tribute to his many significant and lasting achievements

Oxford Users' Guide to Mathematics Eberhard Zeidler, W. Hackbusch, Hans Rudolf Schwarz, 2004-08-19 The Oxford Users Guide to Mathematics is one of the leading handbooks on mathematics available It presents a comprehensive modern picture of mathematics and emphasises the relations between the different branches of mathematics and the

applications of mathematics in engineering and the natural sciences The Oxford User's Guide covers a broad spectrum of mathematics starting with the basic material and progressing on to more advanced topics that have come to the fore in the last few decades The book is organised into mathematical sub disciplines including analysis algebra geometry foundations of mathematics calculus of variations and optimisation theory of probability and mathematical statistics numerical mathematics and scientific computing and history of mathematics The book is supplemented by numerous tables on infinite series special functions integrals integral transformations mathematical statistics and fundamental constants in physics It also includes a comprehensive bibliography of key contemporary literature as well as an extensive glossary and index The wealth of material reaching across all levels and numerous sub disciplines makes The Oxford User's Guide to Mathematics an invaluable reference source for students of engineering mathematics computer science and the natural sciences as well as teachers practitioners and researchers in industry and academia

Topological Persistence in Geometry and Analysis Leonid Polterovich, Daniel Rosen, Karina Samvelyan, Jun Zhang, 2020-05-11 The theory of persistence modules originated in topological data analysis and became an active area of research in algebraic topology This book provides a concise and self contained introduction to persistence modules and focuses on their interactions with pure mathematics bringing the reader to the cutting edge of current research In particular the authors present applications of persistence to symplectic topology including the geometry of symplectomorphism groups and embedding problems Furthermore they discuss topological function theory which provides new insight into oscillation of functions The book is accessible to readers with a basic background in algebraic and differential topology

Semitoric Families Yohann Le Floch, Joseph Palmer, 2024-12-13 View the abstract

Nonlinear PDEs Guido Schneider, Hannes Uecker, 2017-10-26 This is an introductory textbook about nonlinear dynamics of PDEs with a focus on problems over unbounded domains and modulation equations The presentation is example oriented and new mathematical tools are developed step by step giving insight into some important classes of nonlinear PDEs and nonlinear dynamics phenomena which may occur in PDEs The book consists of four parts Parts I and II are introductions to finite and infinite dimensional dynamics defined by ODEs and by PDEs over bounded domains respectively including the basics of bifurcation and attractor theory Part III introduces PDEs on the real line including the Korteweg de Vries equation the Nonlinear Schrödinger equation and the Ginzburg Landau equation These examples often occur as simplest possible models namely as amplitude or modulation equations for some real world phenomena such as nonlinear waves and pattern formation Part IV explores in more detail the connections between such complicated physical systems and the reduced models For many models a mathematically rigorous justification by approximation results is given The parts of the book are kept as self contained as possible The book is suitable for self study and there are various possibilities to build one or two semester courses from the book

Elementary Symplectic Topology and Mechanics Franco Cardin, 2014-12-01 This is a short tract on the essentials of differential and symplectic geometry together with a basic

introduction to several applications of this rich framework analytical mechanics the calculus of variations conjugate points here some primary consequences of this theory are exposed in Chapter 8 aspects of Poincaré's last geometric theorem and the Arnold conjecture are introduced In Chapter 7 elements of the global asymptotic treatment of the highly oscillating integrals for the Schrödinger equation are discussed as is well known this eventually leads to the theory of Fourier Integral Operators This short handbook is directed toward graduate students in Mathematics and Physics and to all those who desire a quick introduction to these beautiful subjects

Hamiltonian Systems Albert Fathi, Philip J. Morrison, Tere M-Seara, Sergei Tabachnikov, 2024-05-09 Dynamical systems that are amenable to formulation in terms of a Hamiltonian function or operator encompass a vast swath of fundamental cases in applied mathematics and physics This carefully edited volume represents work carried out during the special program on Hamiltonian Systems at MSRI in the Fall of 2018 Topics covered include KAM theory polygonal billiards Arnold diffusion quantum hydrodynamics viscosity solutions of the Hamilton Jacobi equation surfaces of locally minimal flux Denjoy subsystems and horseshoes and relations to symplectic topology

Differential Geometry and Mathematical Physics Gerd Rudolph, Matthias Schmidt, 2012-11-09 Starting from an undergraduate level this book systematically develops the basics of Calculus on manifolds vector bundles vector fields and differential forms Lie groups and Lie group actions Linear symplectic algebra and symplectic geometry Hamiltonian systems symmetries and reduction integrable systems and Hamilton Jacobi theory The topics listed under the first item are relevant for virtually all areas of mathematical physics The second and third items constitute the link between abstract calculus and the theory of Hamiltonian systems The last item provides an introduction to various aspects of this theory including Morse families the Maslov class and caustics The book guides the reader from elementary differential geometry to advanced topics in the theory of Hamiltonian systems with the aim of making current research literature accessible The style is that of a mathematical textbook with full proofs given in the text or as exercises The material is illustrated by numerous detailed examples some of which are taken up several times for demonstrating how the methods evolve and interact

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