

An Introduction based on the Seminar in Bern, 1992

Symplectic Geometry

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Beat Aebischer



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Symplectic Geometry B. Aebischer, M. Borer, M. Kälin, C. Leuenberger, Hans Martin Bach, 2012-11-05 The seminar Symplectic Geometry at the University of Berne in summer 1992 showed that the topic of this book is a very active field where many different branches of mathematics come together differential geometry topology partial differential equations variational calculus and complex analysis As usual in such a situation it may be tedious to collect all the necessary ingredients The present book is intended to give the nonspecialist a solid introduction to the recent developments in symplectic and contact geometry Chapter 1 gives a review of the symplectic group $Sp(n, \mathbb{R})$ symplectic manifolds and Hamiltonian systems last but not least to fix the notations The Maslov index for closed curves as well as arcs in $Sp(n, \mathbb{R})$ is discussed This index will be used in chapters 5 and 8 Chapter 2 contains a more detailed account of symplectic manifolds starting with a proof of the Darboux theorem saying that there are no local invariants in symplectic geometry The most important examples of symplectic manifolds will be introduced cotangent spaces and Kähler manifolds Finally we discuss the theory of coadjoint orbits and the Kostant-Souriau theorem which are concerned with the question of which homogeneous spaces carry a symplectic structure

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Symplectic Geometry Beat Aebischer, Symplectic Geometry Beat Aebischer, 1994 Symplectic Geometry B. Aebischer, M. Borer, M. Kälin, 2014-01-15 Introduction to Symplectic Geometry Jean-Louis Koszul, Yi Ming Zou, 2019-04-15 This introductory book offers a unique and unified overview of symplectic geometry highlighting the differential properties of symplectic manifolds It consists of six chapters Some Algebra Basics Symplectic Manifolds Cotangent Bundles Symplectic G -spaces Poisson Manifolds and A Graded Case concluding with a discussion of the differential properties of graded symplectic manifolds of dimensions $0 \leq n$ It is a useful reference resource for students and researchers interested in geometry group theory analysis and differential equations This book is also

inspiring in the emerging field of Geometric Science of Information in particular the chapter on Symplectic G spaces where Jean Louis Koszul develops Jean Marie Souriau's tools related to the non equivariant case of co adjoint action on Souriau's moment map through Souriau's Cocycle opening the door to Lie Group Machine Learning with Souriau Fisher metric *An Introduction to Symplectic Geometry* Rolf Berndt, 2001 Symplectic geometry is a central topic of current research in mathematics Indeed symplectic methods are key ingredients in the study of dynamical systems differential equations algebraic geometry topology mathematical physics and representations of Lie groups This book is a true introduction to symplectic geometry assuming only a general background in analysis and familiarity with linear algebra It starts with the basics of the geometry of symplectic vector spaces Then symplectic manifolds are defined and explored In addition to the essential classic results such as Darboux's theorem more recent results and ideas are also included here such as symplectic capacity and pseudoholomorphic curves These ideas have revolutionized the subject The main examples of symplectic manifolds are given including the cotangent bundle Kahler manifolds and coadjoint orbits Further principal ideas are carefully examined such as Hamiltonian vector fields the Poisson bracket and connections with contact manifolds Berndt describes some of the close connections between symplectic geometry and mathematical physics in the last two chapters of the book In particular the moment map is defined and explored both mathematically and in its relation to physics He also introduces symplectic reduction which is an important tool for reducing the number of variables in a physical system and for constructing new symplectic manifolds from old The final chapter is on quantization which uses symplectic methods to take classical mechanics to quantum mechanics This section includes a discussion of the Heisenberg group and the Weil or metaplectic representation of the symplectic group Several appendices provide background material on vector bundles on cohomology and on Lie groups and Lie algebras and their representations Berndt's presentation of symplectic geometry is a clear and concise introduction to the major methods and applications of the subject and requires only a minimum of prerequisites This book would be an excellent text for a graduate course or as a source for anyone who wishes to learn about symplectic geometry *Symplectic Geometry and Topology* Yakov Eliashberg, Lisa M. Traynor, 2004 Symplectic geometry has its origins as a geometric language for classical mechanics But it has recently exploded into an independent field interconnected with many other areas of mathematics and physics The goal of the IAS Park City Mathematics Institute Graduate Summer School on Symplectic Geometry and Topology was to give an intensive introduction to these exciting areas of current research Included in this proceedings are lecture notes from the following courses Introduction to Symplectic Topology by D McDuff Holomorphic Curves and Dynamics in Dimension Three by H Hofer An Introduction to the Seiberg Witten Equations on Symplectic Manifolds by C Taubes Lectures on Floer Homology by D Salamon A Tutorial on Quantum Cohomology by A Givental Euler Characteristics and Lagrangian Intersections by R MacPherson Hamiltonian Group Actions and Symplectic Reduction by L Jeffrey and Mechanics Symmetry and Dynamics by J Marsden Information for our distributors

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Lectures on Symplectic Geometry Ana Cannas da Silva, 2001-07-17 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

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

Symplectic Geometry A.T. Fomenko, 1995-11-30

Symplectic Geometry and Mathematical Physics P. Donato, 1991-12 This volume contains the proceedings of the conference Colloque de Géométrie Symplectique et Physique Mathématique which was held in Aix en Provence France June 11-15 1990 in honor of Jean Marie Souriau The conference was one in the series of international meetings of the Séminaire Sud Rhodanien de Géométrie an organization of geometers and mathematical physicists at the Universities of Avignon Lyon Marseille and Montpellier The scientific interests of Souriau one of the founders of geometric quantization range from classical mechanics symplectic geometry and quantization problems to general relativity and astrophysics The themes of this conference cover only the first two of these four areas The subjects treated in this volume could be classified in the following way symplectic and Poisson geometry Arms Wilbour Bloch Ratiu Brylinski Kostant Cushman Sjamaar Dufour Lichnerowicz Medina Ouzilou classical mechanics Benanti Holm Marsden Marle particles and fields in physics Garcia Perez Munoz Masque Gotay Montgomery Neman Sternberg Sniatycki and quantization Blattner Huebschmann Karasev Rawnsley Roger Rosso Weinstein However these subjects are so interrelated that a classification by headings such as pure differential geometry applications of Lie groups

constrained systems in physics etc would have produced a completely different clustering The list of authors is not quite identical to the list of speakers at the conference M Karasev was invited but unable to attend C Itzykson and M Vergne spoke on work which is represented here only by the title of Itzykson's talk Surfaces triangulees et integration matricielle and a summary of Vergne's talk

Symplectic Geometry, Groupoids, and Integrable Systems Pierre Dazord, Alan Weinstein, 2012-12-06 The papers some of which are in English the rest in French in this volume are based on lectures given during the meeting of the Seminaire Sud Rhodanien de Geometrie SSRG organized at the Mathematical Sciences Research Institute in 1989 The SSRG was established in 1982 by geometers and mathematical physicists with the aim of developing and coordinating research in symplectic geometry and its applications to analysis and mathematical physics Among the subjects discussed at the meeting a special role was given to the theory of symplectic groupoids the subject of fruitful collaboration involving geometers from Berkeley Lyon and Montpellier

Symplectic Geometry Carl Ludwig Siegel, 2014-05-12 Symplectic Geometry focuses on the processes methodologies and numerical approaches involved in symplectic geometry The book first offers information on the symplectic and discontinuous groups symplectic metric and hermitian forms Numerical calculations are presented to show the values and transformations of these groups The text then examines the fundamental domain of the modular group and the volume of the fundamental domain of the modular group Equations and matrices are provided to show the fundamental domain and volume of the fundamental domain of the modular group The publication ponders on commensurable groups and unit groups of quinary quadratic forms Numerical analyses are also offered to show the values and characteristics of commensurable and unit groups The text is a helpful reference for researchers interested in symplectic geometry

Symplectic and Contact Geometry Anahita Eslami Rad, 2025-04-12 This textbook offers a concise introduction to symplectic and contact geometry with a focus on the relationships between these subjects and other topics such as Lie theory and classical mechanics Organized into four chapters this work serves as a stepping stone for readers to delve into the subject providing a succinct and motivating foundation The content covers definitions symplectic linear algebra symplectic and contact manifolds Hamiltonian systems and more Prerequisite knowledge includes differential geometry manifolds algebraic topology de Rham cohomology and the basics of Lie groups Quick reviews are included where necessary and examples and constructions are provided to foster understanding Ideal for advanced undergraduate students and graduate students this volume can also serve as a valuable resource for independent researchers seeking a quick yet solid understanding of symplectic and contact geometry

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

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Mechanics P. Libermann, Charles-Michel Marle, 2012-12-06 Approach your problems from the right end It isn't that they can't see the solution and begin with the answers Then one day It is that they can't see the problem perhaps you will find the final question G K Chesterton The Scandal of Father The Hermit Clad in Crane Feathers Brown The point of a Pin in R van Gulik's The Chinese Maze Murders Growing specialization and diversification have brought a host of monographs and textbooks on increasingly specialized topics However the tree of knowledge of mathematics and related fields does not grow only by putting forth new branches It also happens quite often in fact that branches which were thought to be completely disparate are suddenly seen to be related Further the kind and level of sophistication of mathematics applied in various sciences has changed drastically in recent years measure theory is used non trivially in regional and theoretical economics algebraic geometry interacts with physics the Minkowski lemma coding theory and the structure of water meet one another in packing and covering theory quantum fields crystal defects and mathematical programming profit from homotopy theory Lie algebras are relevant to filtering and prediction and electrical engineering can use Stein spaces **Symplectic Geometry and Secondary Characteristic Classes** Izu Vaisman, 2013-12-01 The present work grew out of a study of the Maslov class $e g$ 37 which is a fundamental invariant in asymptotic analysis of partial differential equations of quantum physics One of the many interpretations of this class was given by F Kamber and Ph Tondeur 43 and it indicates that the Maslov class is a secondary characteristic class of a complex trivial vector bundle endowed with a real reduction of its structure group In the basic paper of V I Arnold about the Maslov class 2 it is also pointed out without details that the Maslov class is characteristic in the category of vector bundles mentioned previously Accordingly we wanted to study the whole range of secondary characteristic classes involved in this interpretation and we gave a short description of the results in 83 It turned out that a complete exposition of this theory was rather lengthy and moreover I felt that many potential readers would have to use a lot of scattered references in order to find the necessary information from either symplectic geometry or the theory of the secondary characteristic classes On the otherhand both these subjects are of a much larger interest in differential geometry and topology and in the applications to physical theories The Breadth of Symplectic and Poisson Geometry Jerrold E. Marsden, Tudor S. Ratiu, 2007-07-03 The invited papers in this volume are written in honor of Alan Weinstein one of the world's foremost geometers Contributions cover a broad range of topics in symplectic and differential geometry Lie theory mechanics and related fields Intended for graduate students and working mathematicians this text is a distillation of prominent research and an indication of future trends in geometry mechanics and mathematical physics *Symplectic Geometry and Quantization* Yoshiaki Maeda, Hideki Omori, Alan Weinstein, 1994 This volume contains the refereed proceedings of two symposia on symplectic geometry and quantization problems which were held in Japan in July 1993 The purpose of the symposia was to discuss recent progress in a range of related topics in symplectic geometry and mathematical physics including symplectic groupoids geometric quantization noncommutative differential geometry equivariant

cohomology deformation quantization topological quantum field theory and knot invariants The book provides insight into how these different topics relate to one another and offers intriguing new problems Providing a look at the frontier of research in symplectic geometry and quantization this book is suitable as a source book for a seminar in symplectic geometry

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