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Symplectic Techniques In Physics

Marco Cascella



Symplectic Techniques In Physics:

Symplectic Techniques in Physics Victor Guillemin, Shlomo Sternberg, 1990-05-25 Symplectic geometry is very useful for clearly and concisely formulating problems in classical physics and also for understanding the link between classical problems and their quantum counterparts It is thus a subject of interest to both mathematicians and physicists though they have approached the subject from different view points This is the first book that attempts to reconcile these approaches The authors use the uncluttered coordinate free approach to symplectic geometry and classical mechanics that has been developed by mathematicians over the course of the last thirty years but at the same time apply the apparatus to a great number of concrete problems In the first chapter the authors provide an elementary introduction to symplectic geometry and explain the key concepts and results in a way accessible to physicists and mathematicians The remainder of the book is devoted to the detailed analysis and study of the ideas discussed in Chapter 1 Some of the themes emphasized in the book include the pivotal role of completely integrable systems the importance of symmetries analogies between classical dynamics and optics the importance of symplectic tools in classical variational theory symplectic features of classical field theories and the principle of general covariance This work can be used as a textbook for graduate courses but the depth of coverage and the wealth of information and application means that it will be of continuing interest to and of lasting significance for mathematicians and mathematically minded physicists *Symplectic techniques in physics* Victor Guillemin, 1984

Symplectic Techniques in Physics Victor Guillemin, Shlomo Sternberg, 1983 Symplectic Fibrations and Multiplicity Diagrams Victor Guillemin, Eugene Lerman, Shlomo Sternberg, 1996-09-28 Applications of the techniques of symplectic geometry to describe symmetry breaking in quantum physics *Symplectic Methods in Harmonic Analysis and in Mathematical Physics* Maurice A. de Gosson, 2011-07-30 The aim of this book is to give a rigorous and complete treatment of various topics from harmonic analysis with a strong emphasis on symplectic invariance properties which are often ignored or underestimated in the time frequency literature The topics that are addressed include but are not limited to the theory of the Wigner transform the uncertainty principle from the point of view of symplectic topology Weyl calculus and its symplectic covariance Shubin's global theory of pseudo differential operators and Feichtinger's theory of modulation spaces Several applications to time frequency analysis and quantum mechanics are given many of them concurrent with ongoing research For instance a non standard pseudo differential calculus on phase space where the main role is played by Bopp operators also called Landau operators in the literature is introduced and studied This calculus is closely related to both the Landau problem and to the deformation quantization theory of Flato and Sternheimer of which it gives a simple pseudo differential formulation where Feichtinger's modulation spaces are key actors This book is primarily directed towards students or researchers in harmonic analysis in the broad sense and towards mathematical physicists working in quantum mechanics It can also be read with profit by researchers in time frequency analysis providing a valuable complement to the existing

literature on the topic A certain familiarity with Fourier analysis in the broad sense and introductory functional analysis e g the elementary theory of distributions is assumed Otherwise the book is largely self contained and includes an extensive list of references

An Introduction to Methods of Complex Analysis and Geometry for Classical Mechanics and Non-linear Waves Daniel Benest, 1994 Numerical Methods in Applied Sciences Wei Cai, 1996 An Introduction to Symplectic Geometry Rolf Berndt, 2024-04-15 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 Kähler 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

Understanding the Discrete Element Method Hans-Georg Matuttis, Jian Chen, 2014-05-12 Gives readers a more thorough understanding of DEM and equips researchers for independent work and an ability to judge methods related to simulation of polygonal particles Introduces DEM from the fundamental concepts theoretical mechanics and solidstate physics with 2D and 3D simulation methods for polygonal particles Provides the fundamentals of coding discrete element method DEM requiring little advance knowledge of granular matter or numerical simulation Highlights the numerical tricks and pitfalls that are usually only realized after years of experience with relevant simple experiments as applications Presents a logical approach starting with the mechanical and physical bases followed by a description of the techniques and finally their applications Written by a key author presenting ideas on how to model the dynamics of angular particles using polygons and polyhedral

Accompanying website includes MATLAB Programs providing the simulation code for two dimensional polygons Recommended for researchers and graduate students who deal with particle models in areas such as fluid dynamics multi body engineering finite element methods the geosciences and multi scale physics *Fortschritte der Physik* ,1996

Lectures on Symplectic and Poisson Geometry Izu Vaisman,2000 *Symplectic Methods in Harmonic Analysis and in Mathematical Physics* ,2012-02-05 Geometric Numerical Integration Ernst Hairer,Christian Lubich,Gerhard Wanner,2013-03-09 Numerical methods that preserve properties of Hamiltonian systems reversible systems differential equations on manifolds and problems with highly oscillatory solutions are the subject of this book A complete self contained theory of symplectic and symmetric methods which include Runge Kutta composition splitting multistep and various specially designed integrators is presented and their construction and practical merits are discussed The long time behaviour of the numerical solutions is studied using a backward error analysis modified equations combined with KAM theory The book is illustrated by many figures it treats applications from physics and astronomy and contains many numerical experiments and comparisons of different approaches **Worlds in Interaction: Small Bodies and Planets of the Solar System** Hans Rickman,M.J. Valtonen,2012-12-06 Planet Earth is part of our Galactic environment not just the product of it and it is still today influenced by phenomena related to Galactic forces Specifically our planet is affected by its near environment in particular the small bodies in the Solar System This book reviews the processes which cause the collisions of these small bodies with the Earth as well as the consequences of such collisions The various articles take the reader through the Galaxy Solar System connection to the orbital dynamics of the small bodies and to their number and distribution in near Earth space The hazards of the impacts of small bodies on Earth are evaluated and the geophysical records of such impacts are discussed The book takes the reader to the forefront of research on both impact cratering and the origin and evolution of small bodies in the Solar System Thus it brings together two subjects geophysics and astronomy which are usually discussed in separate volumes but are closely knit together in this particular area of research Issues in Computation: 2013 Edition ,2013-05-01 Issues in Computation 2013 Edition is a ScholarlyEditions book that delivers timely authoritative and comprehensive information about Computing The editors have built Issues in Computation 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about Computing in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Computation 2013 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at [http www ScholarlyEditions com](http://www.ScholarlyEditions.com) Geometry and Topology of Caustics -- Caustics ... ,2006 *Acta Scientiarum Mathematicarum* ,1985 Journal of Lie Theory ,2007 The Cumulative Book Index ,1990 A world list of

books in the English language **Essays on Einstein Manifolds** Claude LeBrun, McKenzie Yuen-kong Wang, 1999 This is the sixth volume in a series providing surveys of differential geometry It addresses Einstein manifolds with zero Ricci curvature rigidity and compactness of Einstein metrics general relativity the stability of Minkowski space time and more

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