

Theoretical and Mathematical Physics

Gerd Rudolph
Matthias Schmidt

Differential Geometry and Mathematical Physics

Part I. Manifolds, Lie Groups and
Hamiltonian Systems

 Springer

Differential Geometry And Mathematical Physics Part I
Manifolds Lie Groups And Hamiltonian Systems
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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 [Differential Geometry and Mathematical Physics: Manifolds, lie groups and Hamiltonian systems](#) Gerd Rudolph, Matthias Schmidt (Physicist), [Geometric and Spectral Analysis](#) Pierre Albin, Dmitry Jakobson, Frédéric Rochon, 2014-12-01 In 2012 the Centre de Recherches Mathématiques was at the center of many interesting developments in geometric and spectral analysis with a thematic program on Geometric Analysis and Spectral Theory followed by a thematic year on Moduli Spaces Extremality and Global Invariants This volume contains original contributions as well as useful survey articles of recent developments by participants from three of the workshops organized during these programs Geometry of Eigenvalues and Eigenfunctions held from June 4 8 2012 Manifolds of Metrics and Probabilistic Methods in Geometry and Analysis held from July 2 6 2012 and Spectral Invariants on Non compact and Singular Spaces held from July 23 27 2012 The topics covered in this volume include Fourier integral operators eigenfunctions probability and analysis on singular spaces complex geometry Kähler Einstein metrics analytic torsion and Strichartz estimates This book is co published with the Centre de Recherches Mathématiques [Probabilistic Models of Cosmic Backgrounds](#) Anatoliy Malyarenko, 2024-06-30 Combining research methods from various areas of mathematics and physics Probabilistic Models of Cosmic Backgrounds describes the isotropic random sections of certain fiber bundles and their applications to creating rigorous mathematical models of both discovered and hypothetical cosmic backgrounds Previously scattered and hard to find mathematical and physical theories have been assembled from numerous textbooks monographs and research papers and explained from different or even unexpected points of view This consists of both classical and newly discovered results necessary for understanding a sophisticated problem of modelling cosmic backgrounds The book contains a comprehensive description of mathematical and physical aspects of cosmic backgrounds with a clear focus on examples and explicit calculations Its reader will bridge the gap of

misunderstanding between the specialists in various theoretical and applied areas who speak different scientific languages The audience of the book consists of scholars students and professional researchers A scholar will find basic material for starting their own research A student will use the book as supplementary material for various courses and modules A professional mathematician will find a description of several physical phenomena at the rigorous mathematical level A professional physicist will discover mathematical foundations for well known physical theories

Differentiable Manifolds
Gerardo F. Torres del Castillo, 2020-06-23 This textbook delves into the theory behind differentiable manifolds while exploring various physics applications along the way Included throughout the book are a collection of exercises of varying degrees of difficulty Differentiable Manifolds is intended for graduate students and researchers interested in a theoretical physics approach to the subject Prerequisites include multivariable calculus linear algebra and differential equations and a basic knowledge of analytical mechanics

Smooth Manifolds and Fibre Bundles with Applications to Theoretical Physics
Steinar Johannesen, 2016-12-08 This book provides a systematic presentation of the mathematical foundation of modern physics with applications particularly within classical mechanics and the theory of relativity Written to be self contained this book provides complete and rigorous proofs of all the results presented within Among the themes illustrated in the book are differentiable manifolds differential forms fiber bundles and differential geometry with non trivial applications especially within the general theory of relativity The emphasis is upon a systematic and logical construction of the mathematical foundations It can be used as a textbook for a pure mathematics course in differential geometry assuming the reader has a good understanding of basic analysis linear algebra and point set topology The book will also appeal to students of theoretical physics interested in the mathematical foundation of the theories

Hamiltonian Dynamics
Gaetano Vilasi, 2001 This is both a textbook and a monograph It is partially based on a two semester course held by the author for third year students in physics and mathematics at the University of Salerno on analytical mechanics differential geometry symplectic manifolds and integrable systems As a textbook it provides a systematic and self consistent formulation of Hamiltonian dynamics both in a rigorous coordinate language and in the modern language of differential geometry It also presents powerful mathematical methods of theoretical physics especially in gauge theories and general relativity As a monograph the book deals with the advanced research topic of completely integrable dynamics with both finitely and infinitely many degrees of freedom including geometrical structures of solitonic wave equations Contents Analytical Mechanics The Lagrangian Coordinates Hamiltonian Systems Transformation Theory The Integration Methods Basic Ideas of Differential Geometry Manifolds and Tangent Spaces Differential Forms Integration Theory Lie Groups and Lie Algebras Geometry and Physics Symplectic Manifolds and Hamiltonian Systems The Orbits Method Classical Electrodynamics Integrable Field Theories KdV Equation General Structures Meaning and Existence of Recursion Operators Miscellanea Integrability of Fermionic Dynamics Readership Physicists and mathematicians

Integrability of Nonlinear Systems

Yvette Kosmann-Schwarzbach, Basil Grammaticos, K.M. Tamizhmani, 2004-02-17 The lectures that comprise this volume constitute a comprehensive survey of the many and various aspects of integrable dynamical systems The present edition is a streamlined revised and updated version of a 1997 set of notes that was published as Lecture Notes in Physics Volume 495 This volume will be complemented by a companion book dedicated to discrete integrable systems Both volumes address primarily graduate students and nonspecialist researchers but will also benefit lecturers looking for suitable material for advanced courses and researchers interested in specific topics

Dynamical Systems IV V.I. Arnol'd, S.P. Novikov, 2013-06-29 This book takes a snapshot of the mathematical foundations of classical and quantum mechanics from a contemporary mathematical viewpoint It covers a number of important recent developments in dynamical systems and mathematical physics and places them in the framework of the more classical approaches the presentation is enhanced by many illustrative examples concerning topics which have been of especial interest to workers in the field and by sketches of the proofs of the major results The comprehensive bibliographies are designed to permit the interested reader to retrace the major stages in the development of the field if he wishes Not so much a detailed textbook for plodding students this volume like the others in the series is intended to lead researchers in other fields and advanced students quickly to an understanding of the state of the art in this area of mathematics As such it will serve both as a basic reference work on important areas of mathematical physics as they stand today and as a good starting point for further more detailed study for people new to this field

Riemannian Topology and Geometric Structures on Manifolds Krzysztof Galicki, Santiago R. Simanca, 2010-07-25 Riemannian Topology and Structures on Manifolds results from a similarly entitled conference held on the occasion of Charles P Boyer's 65th birthday The various contributions to this volume discuss recent advances in the areas of positive sectional curvature Kähler and Sasakian geometry and their interrelation to mathematical physics especially M and superstring theory Focusing on these fundamental ideas this collection presents review articles original results and open problems of interest

Normally Hyperbolic Invariant Manifolds in Dynamical Systems Stephen Wiggins, 2013-11-22 In the past ten years there has been much progress in understanding the global dynamics of systems with several degrees of freedom An important tool in these studies has been the theory of normally hyperbolic invariant manifolds and foliations of normally hyperbolic invariant manifolds In recent years these techniques have been used for the development of global perturbation methods the study of resonance phenomena in coupled oscillators geometric singular perturbation theory and the study of bursting phenomena in biological oscillators Invariant manifold theorems have become standard tools for applied mathematicians physicists engineers and virtually anyone working on nonlinear problems from a geometric viewpoint In this book the author gives a self contained development of these ideas as well as proofs of the main theorems along the lines of the seminal works of Fenichel In general the Fenichel theory is very valuable for many applications but it is not easy for people to get into from existing literature This book provides an excellent avenue to that Wiggins also describes a variety of

settings where these techniques can be used in applications

Geometric And Algebraic Topological Methods In

Quantum Mechanics Luigi Mangiarotti, Gennadi A Sardanashvily, Giovanni Giachetta, 2005-01-27 In the last decade the development of new ideas in quantum theory including geometric and deformation quantization the non Abelian Berry's geometric factor super and BRST symmetries non commutativity has called into play the geometric techniques based on the deep interplay between algebra differential geometry and topology The book aims at being a guide to advanced differential geometric and topological methods in quantum mechanics Their main peculiarity lies in the fact that geometry in quantum theory speaks mainly the algebraic language of rings modules sheaves and categories Geometry is by no means the primary scope of the book but it underlies many ideas in modern quantum physics and provides the most advanced schemes of quantization

Nonequilibrium Quantum Field Theory Esteban A. Calzetta, Bei-Lok B. Hu, 2023-02-09 This 2008 book reissued as OA captures the essence of nonequilibrium quantum field theory graduate students and researchers

The Directory of Graduate Studies, 1998 Non-commuting Variations in Mathematics and Physics Serge Preston, 2016-03-02 This text presents and studies the method of so called noncommuting variations in Variational Calculus This method was pioneered by Vito Volterra who noticed that the conventional Euler Lagrange EL equations are not applicable in Non Holonomic Mechanics and suggested to modify the basic rule used in Variational Calculus This book presents a survey of Variational Calculus with non commutative variations and shows that most basic properties of conventional Euler Lagrange Equations are with some modifications preserved for EL equations with K twisted defined by K variations Most of the book can be understood by readers without strong mathematical preparation some knowledge of Differential Geometry is necessary In order to make the text more accessible the definitions and several necessary results in Geometry are presented separately in Appendices I and II Furthermore in Appendix III a short presentation of the Noether Theorem describing the relation between the symmetries of the differential equations with dissipation and corresponding balance laws is presented

Critical Point Theory and Hamiltonian Systems Jean Mawhin, 2013-04-17 FACHGEB The last decade has seen a tremendous development in critical point theory in infinite dimensional spaces and its application to nonlinear boundary value problems In particular striking results were obtained in the classical problem of periodic solutions of Hamiltonian systems This book provides a systematic presentation of the most basic tools of critical point theory minimization convex functions and Fenchel transform dual least action principle Ekeland variational principle minimax methods Lusternik Schirelmann theory for Z_2 and S^1 symmetries Morse theory for possibly degenerate critical points and non degenerate critical manifolds Each technique is illustrated by applications to the discussion of the existence multiplicity and bifurcation of the periodic solutions of Hamiltonian systems Among the treated questions are the periodic solutions with fixed period or fixed energy of autonomous systems the existence of subharmonics in the non autonomous case the asymptotically linear Hamiltonian systems free and forced superlinear problems Application of those results to the equations of mechanical

pendulum to Josephson systems of solid state physics and to questions from celestial mechanics are given The aim of the book is to introduce a reader familiar to more classical techniques of ordinary differential equations to the powerful approach of modern critical point theory The style of the exposition has been adapted to this goal The new topological tools are introduced in a progressive but detailed way and immediately applied to differential equation problems The abstract tools can also be applied to partial differential equations and the reader will also find the basic references in this direction in the bibliography of more than 500 items which concludes the book ERSCHEIN **Structures in the Universe by Exact**

Methods Krzysztof Bolejko, 2010 Reviews developments in applications of inhomogeneous models to cosmology for graduate students and academic researchers in astrophysics **Quantum Field Theory in Curved Spacetime** Leonard

Parker, David Toms, 2009-08-20 Suitable for graduate students this book develops quantum field theory in curved spacetime in a pedagogical style Dynamical Systems IV S.P. Novikov, 2001-06-20 From the reviews of the first edition Here a wealth of material is displayed for us too much to even indicate in a review Your reviewer was very impressed by the contents of both volumes EMS 2 and 4 recommending them without any restriction Mededelingen van het Wiskundig genootschap 1992

Differential Models of Hysteresis Augusto Visintin, 2013-06-29 Hysteresis effects occur in science and engineering plasticity ferromagnetism ferroelectricity are well known examples Modelling and mathematical analysis of hysteresis phenomena have been addressed by mathematicians only recently but are now in full development This volume provides a self contained and comprehensive introduction to the analysis of hysteresis models and illustrates several new results in this field First the classical models of Prandtl Ishlinskii Preisach and Duhem are formulated and studied using the concept of hysteresis operator A new model of discontinuous hysteresis is introduced Several partial differential equations containing hysteresis operators are studied in the framework of Sobolev spaces

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