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Jet Nestruev

Smooth Manifolds and Observables

Second Edition



Springer

Smooth Manifolds And Observables

Gerard Walschap



Smooth Manifolds And Observables:

Smooth Manifolds and Observables Jet Nestruev, 2003 This book gives an introduction to fiber spaces and differential operators on smooth manifolds Over the last 20 years the authors developed an algebraic approach to the subject and they explain in this book why differential calculus on manifolds can be considered as an aspect of commutative algebra This new approach is based on the fundamental notion of observable which is used by physicists and will further the understanding of the mathematics underlying quantum field theory

Smooth Manifolds and Observables Jet Nestruev, 2020-09-11 This book gives an introduction to fiber spaces and differential operators on smooth manifolds Over the last 20 years the authors developed an algebraic approach to the subject and they explain in this book why differential calculus on manifolds can be considered as an aspect of commutative algebra This new approach is based on the fundamental notion of observable which is used by physicists and will further the understanding of the mathematics underlying quantum field theory

Smooth Manifolds and Observables Jet Nestruev, 2014-01-15

Smooth Manifolds and Observables Jet Nestruev, 2020-09-10 This book gives an introduction to fiber spaces and differential operators on smooth manifolds Over the last 20 years the authors developed an algebraic approach to the subject and they explain in this book why differential calculus on manifolds can be considered as an aspect of commutative algebra This new approach is based on the fundamental notion of observable which is used by physicists and will further the understanding of the mathematics underlying quantum field theory

Introduction to Smooth Manifolds John Lee, 2012-08-27 This book is an introductory graduate level textbook on the theory of smooth manifolds Its goal is to familiarize students with the tools they will need in order to use manifolds in mathematical or scientific research smooth structures tangent vectors and covectors vector bundles immersed and embedded submanifolds tensors differential forms de Rham cohomology vector fields flows foliations Lie derivatives Lie groups Lie algebras and more The approach is as concrete as possible with pictures and intuitive discussions of how one should think geometrically about the abstract concepts while making full use of the powerful tools that modern mathematics has to offer This second edition has been extensively revised and clarified and the topics have been substantially rearranged The book now introduces the two most important analytic tools the rank theorem and the fundamental theorem on flows much earlier so that they can be used throughout the book A few new topics have been added notably Sard's theorem and transversality a proof that infinitesimal Lie group actions generate global group actions a more thorough study of first order partial differential equations a brief treatment of degree theory for smooth maps between compact manifolds and an introduction to contact structures Prerequisites include a solid acquaintance with general topology the fundamental group and covering spaces as well as basic undergraduate linear algebra and real analysis

Smooth Manifolds Claudio Gorodski, 2020-08-01 This concise and practical textbook presents the essence of the theory on smooth manifolds A key concept in mathematics smooth manifolds are ubiquitous They appear as Riemannian manifolds in differential geometry as space times in general relativity

as phase spaces and energy levels in mechanics as domains of definition of ODEs in dynamical systems as Lie groups in algebra and geometry and in many other areas The book first presents the language of smooth manifolds culminating with the Frobenius theorem before discussing the language of tensors which includes a presentation of the exterior derivative of differential forms It then covers Lie groups and Lie algebras briefly addressing homogeneous manifolds Integration on manifolds explanations of Stokes theorem and de Rham cohomology and rudiments of differential topology complete this work It also includes exercises throughout the text to help readers grasp the theory as well as more advanced problems for challenge oriented minds at the end of each chapter Conceived for a one semester course on Differentiable Manifolds and Lie Groups which is offered by many graduate programs worldwide it is a valuable resource for students and lecturers alike

Topological Methods in Group Theory Ross Geoghegan, 2007-12-17 This book is about the interplay between algebraic topology and the theory of infinite discrete groups It is a hugely important contribution to the field of topological and geometric group theory and is bound to become a standard reference in the field To keep the length reasonable and the focus clear the author assumes the reader knows or can easily learn the necessary algebra but wants to see the topology done in detail The central subject of the book is the theory of ends Here the author adopts a new algebraic approach which is geometric in spirit

A First Course in Modular Forms Fred Diamond, Jerry Shurman, 2006-03-30 This book introduces the theory of modular forms with an eye toward the Modularity Theorem All rational elliptic curves arise from modular forms The topics covered include elliptic curves as complex tori and as algebraic curves modular curves as Riemann surfaces and as algebraic curves Hecke operators and Atkin Lehner theory Hecke eigenforms and their arithmetic properties the Jacobians of modular curves and the Abelian varieties associated to Hecke eigenforms elliptic and modular curves modulo p and the Eichler Shimura Relation the Galois representations associated to elliptic curves and to Hecke eigenforms As it presents these ideas the book states the Modularity Theorem in various forms relating them to each other and touching on their applications to number theory A First Course in Modular Forms is written for beginning graduate students and advanced undergraduates It does not require background in algebraic number theory or algebraic geometry and it contains exercises throughout Fred Diamond received his Ph D from Princeton University in 1988 under the direction of Andrew Wiles and now teaches at King's College London Jerry Shurman received his Ph D from Princeton University in 1988 under the direction of Goro Shimura and now teaches at Reed College

The Routledge Companion to Philosophy of Physics Eleanor Knox, Alastair Wilson, 2021-09-28 The Routledge Companion to Philosophy of Physics is a comprehensive and authoritative guide to the state of the art in the philosophy of physics It comprises 54 self contained chapters written by leading philosophers of physics at both senior and junior levels making it the most thorough and detailed volume of its type on the market nearly every major perspective in the field is represented The Companion's 54 chapters are organized into 12 parts The first seven parts cover all of the major physical theories investigated by philosophers of physics today and the last five explore key

themes that unite the study of these theories I Newtonian Mechanics II Special Relativity III General Relativity IV Non Relativistic Quantum Theory V Quantum Field Theory VI Quantum Gravity VII Statistical Mechanics and Thermodynamics VIII Explanation IX Intertheoretic Relations X Symmetries XI Metaphysics XII Cosmology The difficulty level of the chapters has been carefully pitched so as to offer both accessible summaries for those new to philosophy of physics and standard reference points for active researchers on the front lines An introductory chapter by the editors maps out the field and each part also begins with a short summary that places the individual chapters in context The volume will be indispensable to any serious student or scholar of philosophy of physics

Handbook of the History and Philosophy of Mathematical Practice Bharath Sriraman, 2024-04-26 The purpose of this unique handbook is to examine the transformation of the philosophy of mathematics from its origins in the history of mathematical practice to the present It aims to synthesize what is known and what has unfolded so far as well as to explore directions in which the study of the philosophy of mathematics as evident in increasingly diverse mathematical practices is headed Each section offers insights into the origins debates methodologies and newer perspectives that characterize the discipline today Contributions are written by scholars from mathematics history and philosophy as well as other disciplines that have contributed to the richness of perspectives abundant in the study of philosophy today who describe various mathematical practices throughout different time periods and contrast them with the development of philosophy Editorial Advisory Board Andrew Aberdein Florida Institute of Technology USA Jody Azzouni Tufts University USA Ot vio Bueno University of Miami USA William Byers Concordia University Canada Carlo Cellucci Sapienza University of Rome Italy Chandler Davis University of Toronto Canada 1926 2022 Paul Ernest University of Exeter UK Michele Friend George Washington University USA Reuben Hersch University of New Mexico USA 1927 2020 Kyeong Hwa Lee Seoul National University South Korea Yuri Manin Max Planck Institute for Mathematics Germany 1937 2023 Athanase Papadopoulos University of Strasbourg France Ulf Persson Chalmers University of Technology Sweden John Stillwell University of San Francisco USA David Tall University of Warwick UK 1941 2024 This book with its exciting depth and breadth illuminates us about the history practice and the very language of our subject about the role of abstraction of proof and manners of proof about the interplay of fundamental intuitions about algebraic thought in contrast to geometric thought The richness of mathematics and the philosophy encompassing it is splendidly exhibited over the wide range of time these volumes cover from deep platonic and neoplatonic influences to the most current experimental approaches Enriched as well with vivid biographies and brilliant personal essays written by and about people who play an important role in our tradition this extraordinary collection of essays is fittingly dedicated to the memory of Chandler Davis Reuben Hersch and Yuri Manin Barry Mazur Gerhard Gade University Professor Harvard University This encyclopedic Handbook will be a treat for all those interested in the history and philosophy of mathematics Whether one is interested in individuals from Pythagoras through Newton and Leibniz to Grothendieck fields geometry algebra number theory logic

probability analysis viewpoints from Platonism to Intuitionism or methods proof experiment computer assistance the reader will find a multitude of chapters that inform and fascinate John Stillwell Emeritus Professor of Mathematics University of San Francisco Recipient of the 2005 Chauvenet Prize Dedicating a volume to the memory of three mathematicians Chandler Davis Reuben Hersh and Yuri Manin who went out of their way to show to a broader audience that mathematics is more than what they might think is an excellent initiative Gathering authors coming from many different backgrounds but who are very strict about the essays they write was successfully achieved by the editor in chief The result a great source of potential inspiration Jean Pierre Bourguignon Nicolaas Kuiper Honorary Professor at the Institut des Hautes études Scientifiques

Poisson Structures Camille Laurent-Gengoux, Anne Pichereau, Pol Vanhaecke, 2012-08-27 Poisson structures appear in a large variety of contexts ranging from string theory classical quantum mechanics and differential geometry to abstract algebra algebraic geometry and representation theory In each one of these contexts it turns out that the Poisson structure is not a theoretical artifact but a key element which unsolicited comes along with the problem that is investigated and its delicate properties are decisive for the solution to the problem in nearly all cases Poisson Structures is the first book that offers a comprehensive introduction to the theory as well as an overview of the different aspects of Poisson structures The first part covers solid foundations the central part consists of a detailed exposition of the different known types of Poisson structures and of the usually mathematical contexts in which they appear and the final part is devoted to the two main applications of Poisson structures integrable systems and deformation quantization The clear structure of the book makes it adequate for readers who come across Poisson structures in their research or for graduate students or advanced researchers who are interested in an introduction to the many facets and applications of Poisson structures **Quantization, Geometry**

and Noncommutative Structures in Mathematics and Physics Alexander Cardona, Pedro Morales, Hernán Ocampo, Sylvie Paycha, Andrés F. Reyes Lega, 2017-10-26 This monograph presents various ongoing approaches to the vast topic of quantization which is the process of forming a quantum mechanical system starting from a classical one and discusses their numerous fruitful interactions with mathematics The opening chapter introduces the various forms of quantization and their interactions with each other and with mathematics A first approach to quantization called deformation quantization consists of viewing the Planck constant as a small parameter This approach provides a deformation of the structure of the algebra of classical observables rather than a radical change in the nature of the observables When symmetries come into play deformation quantization needs to be merged with group actions which is presented in chapter 2 by Simone Gutt The noncommutativity arising from quantization is the main concern of noncommutative geometry Allowing for the presence of symmetries requires working with principal fiber bundles in a non commutative setup where Hopf algebras appear naturally This is the topic of chapter 3 by Christian Kassel Nichols algebras a special type of Hopf algebras are the subject of chapter 4 by Nicol s Andruskiewitsch The purely algebraic approaches given in the previous chapters do

not take the geometry of space time into account For this purpose a special treatment using a more geometric point of view is required An approach to field quantization on curved space time with applications to cosmology is presented in chapter 5 in an account of the lectures of Abhay Ashtekar that brings a complementary point of view to non commutativity An alternative quantization procedure is known under the name of string theory In chapter 6 its supersymmetric version is presented Superstrings have drawn the attention of many mathematicians due to its various fruitful interactions with algebraic geometry some of which are described here The remaining chapters discuss further topics as the Batalin Vilkovisky formalism and direct products of spectral triples This volume addresses both physicists and mathematicians and serves as an introduction to ongoing research in very active areas of mathematics and physics at the border line between geometry topology algebra and quantum field theory

Statistical Theory of Heat Florian Scheck, 2016-11-15 Scheck's textbook starts with a concise introduction to classical thermodynamics including geometrical aspects Then a short introduction to probabilities and statistics lays the basis for the statistical interpretation of thermodynamics Phase transitions discrete models and the stability of matter are explained in great detail Thermodynamics has a special role in theoretical physics Due to the general approach of thermodynamics the field has as a bridging function between several areas like the theory of condensed matter elementary particle physics astrophysics and cosmology The classical thermodynamics describes predominantly averaged properties of matter reaching from few particle systems and state of matter to stellar objects Statistical Thermodynamics covers the same fields but explores them in greater depth and unifies classical statistical mechanics with quantum theory of multiple particle systems The content is presented as two tracks the fast track for master students providing the essentials and the intensive track for all wanting to get in depth knowledge of the field Clearly labelled material and sections guide students through the preferred level of treatment Numerous problems and worked examples will provide successful access to Statistical Physics and Thermodynamics

A Classical Introduction to Modern Number Theory Kenneth Ireland, Michael Ira Rosen, 1990-09-07 This well developed accessible text details the historical development of the subject throughout It also provides wide ranging coverage of significant results with comparatively elementary proofs some of them new This second edition contains two new chapters that provide a complete proof of the Mordel Weil theorem for elliptic curves over the rational numbers and an overview of recent progress on the arithmetic of elliptic curves

Fourier Analysis and Its Applications Anders Vretblad, 2006-04-18 The classical theory of Fourier series and integrals as well as Laplace transforms is of great importance for physical and technical applications and its mathematical beauty makes it an interesting study for pure mathematicians as well I have taught courses on these subjects for decades to civil engineering students and also mathematics majors and the present volume can be regarded as my collected experiences from this work There is of course an unsurpassable book on Fourier analysis the treatise by Katznelson from 1970 That book is however aimed at mathematically very mature students and can hardly be used in

engineering courses On the other end of the scale there are a number of more or less cookbook styled books where the emphasis is almost entirely on applications I have felt the need for an alternative in between these extremes a text for the ambitious and interested student who on the other hand does not aspire to become an expert in the field There do exist a few texts that fulfill these requirements see the literature list at the end of the book but they do not include all the topics I like to cover in my courses such as Laplace transforms and the simplest facts about distributions Riemannian Geometry Peter

Petersen, 2006-11-24 This volume introduces techniques and theorems of Riemannian geometry and opens the way to advanced topics The text combines the geometric parts of Riemannian geometry with analytic aspects of the theory and reviews recent research The updated second edition includes a new coordinate free formula that is easily remembered the Koszul formula in disguise an expanded number of coordinate calculations of connection and curvature general formulas for curvature on Lie Groups and submersions variational calculus integrated into the text allowing for an early treatment of the Sphere theorem using a forgotten proof by Berger recent results regarding manifolds with positive curvature *Partial*

Differential Equations Jürgen Jost, 2007-01-08 This book offers an ideal introduction to the theory of partial differential equations It focuses on elliptic equations and systematically develops the relevant existence schemes always with a view towards nonlinear problems It also develops the main methods for obtaining estimates for solutions of elliptic equations Sobolev space theory weak and strong solutions Schauder estimates and Moser iteration It also explores connections between elliptic parabolic and hyperbolic equations as well as the connection with Brownian motion and semigroups This second edition features a new chapter on reaction diffusion equations and systems *Metric Structures in Differential*

Geometry Gerard Walschap, 2012-08-23 This text is an elementary introduction to differential geometry Although it was written for a graduate level audience the only requisite is a solid background in calculus linear algebra and basic point set topology The first chapter covers the fundamentals of differentiable manifolds that are the bread and butter of differential geometry All the usual topics are covered culminating in Stokes theorem together with some applications The student's first contact with the subject can be overwhelming because of the wealth of abstract definitions involved so examples have been stressed throughout One concept for instance that students often find confusing is the definition of tangent vectors They are first told that these are derivations on certain equivalence classes of functions but later that the tangent space of $\mathbb{R}^n$ is the same as $\mathbb{R}^n$ We have tried to keep these spaces separate and to carefully explain how a vector space E is canonically isomorphic to its tangent space at a point This subtle distinction becomes essential when later discussing the vertical bundle of a given vector bundle **Geometry from Dynamics, Classical and Quantum** José F. Cariñena, Alberto Ibort, Giuseppe

Marmo, Giuseppe Morandi, 2014-09-23 This book describes by using elementary techniques how some geometrical structures widely used today in many areas of physics like symplectic Poisson Lagrangian Hermitian etc emerge from dynamics It is assumed that what can be accessed in actual experiences when studying a given system is just its dynamical behavior that is

described by using a family of variables observables of the system The book departs from the principle that dynamics is first and then tries to answer in what sense the sole dynamics determines the geometrical structures that have proved so useful to describe the dynamics in so many important instances In this vein it is shown that most of the geometrical structures that are used in the standard presentations of classical dynamics Jacobi Poisson symplectic Hamiltonian Lagrangian are determined though in general not uniquely by the dynamics alone The same program is accomplished for the geometrical structures relevant to describe quantum dynamics Finally it is shown that further properties that allow the explicit description of the dynamics of certain dynamical systems like integrability and super integrability are deeply related to the previous development and will be covered in the last part of the book The mathematical framework used to present the previous program is kept to an elementary level throughout the text indicating where more advanced notions will be needed to proceed further A family of relevant examples is discussed at length and the necessary ideas from geometry are elaborated along the text However no effort is made to present an all inclusive introduction to differential geometry as many other books already exist on the market doing exactly that However the development of the previous program considered as the posing and solution of a generalized inverse problem for geometry leads to new ways of thinking and relating some of the most conspicuous geometrical structures appearing in Mathematical and Theoretical Physics

Using Algebraic Geometry David A Cox, John Little, Donal O'Shea, 2005-03-17 The discovery of new algorithms for dealing with polynomial equations and their implementation on fast inexpensive computers has revolutionized algebraic geometry and led to exciting new applications in the field This book details many uses of algebraic geometry and highlights recent applications of Grobner bases and resultants This edition contains two new sections a new chapter updated references and many minor improvements throughout

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