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Daniel Huybrechts

Complex Geometry

An Introduction

 Springer

Complex Geometry An Introduction Universitext

Daniel Huybrechts



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Complex Geometry Daniel Huybrechts, 2005 Easily accessible Includes recent developments Assumes very little knowledge of differentiable manifolds and functional analysis Particular emphasis on topics related to mirror symmetry SUSY Kaehler Einstein metrics Tian Todorov lemma *Complex Geometry* Daniel Huybrechts, 2005 *Geometry and Topology of Manifolds: Surfaces and Beyond* Vicente Muñoz, Ángel González-Prieto, Juan Ángel Rojo, 2020-10-21 This book represents a novel approach to differential topology Its main focus is to give a comprehensive introduction to the classification of manifolds with special attention paid to the case of surfaces for which the book provides a complete classification from many points of view topological smooth constant curvature complex and conformal Each chapter briefly revisits basic results usually known to graduate students from an alternative perspective focusing on surfaces We provide full proofs of some remarkable results that sometimes are missed in basic courses e g the construction of triangulations on surfaces the classification of surfaces the Gauss Bonnet theorem the degree genus formula for complex plane curves the existence of constant curvature metrics on conformal surfaces and we give hints to questions about higher dimensional manifolds Many examples and remarks are scattered through the book Each chapter ends with an exhaustive collection of problems and a list of topics for further study The book is primarily addressed to graduate students who did take standard introductory courses on algebraic topology differential and Riemannian geometry or algebraic geometry but have not seen their deep interconnections which permeate a modern approach to geometry and topology of manifolds *Lectures on Differential Geometry* Bennett Chow, Yutze Chow, 2024-09-23 Differential geometry is a subject related to many fields in mathematics and the sciences The authors of this book provide a vertically integrated introduction to differential geometry and geometric analysis The material is presented in three distinct parts an introduction to geometry via submanifolds of Euclidean space a first course in Riemannian geometry and a graduate special topics course in geometric analysis and it contains more than enough content to serve as a good textbook for a course in any of these three topics The reader will learn about the classical theory of submanifolds smooth manifolds Riemannian comparison geometry bundles connections and curvature the Chern Gauss Bonnet formula harmonic functions eigenfunctions and eigenvalues on Riemannian manifolds minimal surfaces the curve shortening flow and the Ricci flow on surfaces This will provide a pathway to further topics in geometric analysis such as Ricci flow used by Hamilton and Perelman to solve the Poincaré and Thurston geometrization conjectures mean curvature flow and minimal submanifolds The book is primarily aimed at graduate students in geometric analysis but it will also be of interest to postdoctoral researchers and established mathematicians looking for a refresher or deeper exploration of the topic **Holomorphic Dynamical Systems** Nessim Sibony, Dierk Schleicher, Dinh Tien Cuong, Marco Brunella, Eric Bedford, Marco Abate, 2010-07-31 The theory of holomorphic dynamical systems is a subject of increasing interest in mathematics both for its challenging problems and for its connections with other branches of pure and applied mathematics

A holomorphic dynamical system is the datum of a complex variety and a holomorphic object such as a self map or a vector field acting on it. The study of a holomorphic dynamical system consists in describing the asymptotic behavior of the system associating it with some invariant objects easy to compute which describe the dynamics and classify the possible holomorphic dynamical systems supported by a given manifold. The behavior of a holomorphic dynamical system is pretty much related to the geometry of the ambient manifold for instance parabolic manifolds do not admit chaotic behavior while projective manifolds have a variety of different chaotic pictures. The techniques used to tackle such problems are of various kinds: complex analysis, methods of real analysis, pluripotential theory, algebraic geometry, differential geometry, topology. To cover all the possible points of view of the subject in a unique occasion has become almost impossible and the CIME session in Cetraro on Holomorphic Dynamical Systems was not an exception.

Quantum Riemannian Geometry Edwin J. Beggs, Shahn Majid, 2020-01-31. This book provides a comprehensive account of a modern generalisation of differential geometry in which coordinates need not commute. This requires a reinvention of differential geometry that refers only to the coordinate algebra now possibly noncommutative rather than to actual points. Such a theory is needed for the geometry of Hopf algebras or quantum groups which provide key examples as well as in physics to model quantum gravity effects in the form of quantum spacetime. The mathematical formalism can be applied to any algebra and includes graph geometry and a Lie theory of finite groups. Even the algebra of 2×2 matrices turns out to admit a rich moduli of quantum Riemannian geometries. The approach taken is a bottom up one in which the different layers of geometry are built up in succession starting from differential forms and proceeding up to the notion of a quantum Levi-Civita bimodule connection, geometric Laplacians and in some cases Dirac operators. The book also covers elements of Connes' approach to the subject coming from cyclic cohomology and spectral triples. Other topics include various other cohomology theories, holomorphic structures and noncommutative D-modules. A unique feature of the book is its constructive approach and its wealth of examples drawn from a large body of literature in mathematical physics now put on a firm algebraic footing. Including exercises with solutions it can be used as a textbook for advanced courses as well as a reference for researchers.

[Introduction to Complex Manifolds](#) John M. Lee, 2024-05-15. Complex manifolds are smooth manifolds endowed with coordinate charts that overlap holomorphically. They have deep and beautiful applications in many areas of mathematics. This book is an introduction to the concepts, techniques and main results about complex manifolds, mainly compact ones, and it tells a story. Starting from familiarity with smooth manifolds and Riemannian geometry, it gradually explains what is different about complex manifolds and develops most of the main tools for working with them using the Kodaira embedding theorem as a motivating project throughout. The approach and style will be familiar to readers of the author's previous graduate texts: new concepts are introduced gently with as much intuition and motivation as possible, always relating new concepts to familiar old ones with plenty of examples. The main prerequisite is familiarity with the basic results on topological, smooth and Riemannian manifolds. The book is intended for graduate students.

and researchers in differential geometry but it will also be appreciated by students of algebraic geometry who wish to understand the motivations analogies and analytic results that come from the world of differential geometry

Supergeometry, Super Riemann Surfaces and the Superconformal Action Functional Enno Keßler, 2019-08-28 This book treats the two dimensional non linear supersymmetric sigma model or spinning string from the perspective of supergeometry The objective is to understand its symmetries as geometric properties of super Riemann surfaces which are particular complex super manifolds of dimension 1,1 The first part gives an introduction to the super differential geometry of families of super manifolds Appropriate generalizations of principal bundles smooth families of complex manifolds and integration theory are developed The second part studies uniformization U(1) structures and connections on Super Riemann surfaces and shows how the latter can be viewed as extensions of Riemann surfaces by a gravitino field A natural geometric action functional on super Riemann surfaces is shown to reproduce the action functional of the non linear supersymmetric sigma model using a component field formalism The conserved currents of this action can be identified as infinitesimal deformations of the super Riemann surface This is in surprising analogy to the theory of Riemann surfaces and the harmonic action functional on them This volume is aimed at both theoretical physicists interested in a careful treatment of the subject and mathematicians who want to become acquainted with the potential applications of this beautiful theory

Lectures on Kähler Manifolds Werner Ballmann, 2006 These notes are based on lectures the author gave at the University of Bonn and the Erwin Schrodinger Institute in Vienna The aim is to give a thorough introduction to the theory of Kahler manifolds with special emphasis on the differential geometric side of Kahler geometry The exposition starts with a short discussion of complex manifolds and holomorphic vector bundles and a detailed account of the basic differential geometric properties of Kahler manifolds The more advanced topics are the cohomology of Kahler manifolds Calabi conjecture Gromov's Kahler hyperbolic spaces and the Kodaira embedding theorem Some familiarity with global analysis and partial differential equations is assumed in particular in the part on the Calabi conjecture There are appendices on Chern Weil theory symmetric spaces and L^2 cohomology

Supersymmetric Field Theories Sergio Cecotti, 2015-01-08 Adopting an elegant geometrical approach this advanced pedagogical text describes deep and intuitive methods for understanding the subtle logic of supersymmetry while avoiding lengthy computations The book describes how complex results and formulae obtained using other approaches can be significantly simplified when translated to a geometric setting Introductory chapters describe geometric structures in field theory in the general case while detailed later chapters address specific structures such as parallel tensor fields G structures and isometry groups The relationship between structures in supergravity and periodic maps of algebraic manifolds Kodaira Spencer theory modularity and the arithmetic properties of supergravity are also addressed Relevant geometric concepts are introduced and described in detail providing a self contained toolkit of useful techniques formulae and constructions Covering all the material necessary for the application of supersymmetric field

theories to fundamental physical questions this is an outstanding resource for graduate students and researchers in theoretical physics

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- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Complex Geometry An Introduction Universitext.

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