The Geometry of Four-Manifolds

S. K. DONALDSON

and

P. B. KRONHEIMER

Geometry Of Four Manifolds

Robert Friedman,John W. Morgan

Geometry Of Four Manifolds:

The Geometry of Four-manifolds S. K. Donaldson,P. B. Kronheimer,1997 This book provides the first lucid and accessible account of the modern study of the geometry of four manifolds It presents both a thorough treatment of the main lines of the developments and also a wide ranging treatment of relevant topics from geometry and global analysis <u>Gauge Theory and the Topology of Four-Manifolds</u> Robert Friedman,John W. Morgan,1998 This text is part of the IAS Park City Mathematics series and focuses on gauge theory and the topology of four manifolds **The Geometry of Four-manifolds** S. K. Donaldson,P. B. Kronheimer,2023 This text provides an accessible account to the modern study of the geometry of four manifolds Prerequisites are a firm grounding in differential topology and geometry as may be gained from the first year of a graduate course *Smooth Four-Manifolds and Complex Surfaces* Robert Friedman,John W. Morgan,2013-03-09 In 1961 Smale established the generalized Poincare Conjecture in dimensions greater than or equal to 5 129 and proceeded to prove the h cobordism theorem 130 This result inaugurated a major effort to classify all possible smooth and topological structures on manifolds of dimension at least 5 By the mid 1970 s the main outlines of this theory were complete and explicit answers especially concerning simply connected manifolds as well as general qualitative results had been obtained As an example of such a qualitative result a closed simply connected manifold of dimension 2 5 is determined up to finitely many diffeomorphism possibilities by its homotopy type and its Pontrjagin classes There are similar results for self diffeomorphisms which at least in the simply connected case say that the group of self diffeomorphisms of a closed manifold M of dimension at least 5 is commensurate with an arithmetic subgroup of the linear algebraic group of all automorphisms of its so called rational minimal model which preserve the Pontrjagin classes 131 Once the high dimensional theory was in good shape attention shifted to the remaining and seemingly exceptional dimensions 3 and 4 The theory behind the results for manifolds of dimension at least 5 does not carryover to manifolds of these low dimensions essentially because there is no longer enough room to maneuver Thus new ideas are necessary to study manifolds of these low dimensions **Gauge Theory and the Topology of Four-Manifolds** Robert Friedman,John W. Morgan,2024-12-05 The lectures in this volume provide a perspective on how 4 manifold theory was studied before the discovery of modern day Seiberg Witten theory One reason the progress using the Seiberg Witten invariants was so spectacular was that those studying SU 2 gauge theory had more than ten years experience with the subject The tools had been honed the correct questions formulated and the basic strategies well understood The knowledge immediately bore fruit in the technically simpler environment of the Seiberg Witten theory Gauge theory long predates Donaldson s applications of the subject to 4 manifold topology where the central concern was the geometry of the moduli space One reason for the interest in this study is the connection between the gauge theory moduli spaces of a K hler manifold and the algebro geometric moduli space of stable holomorphic bundles over the manifold The extra geometric richness of the SU 2 moduli spaces may one day be important for purposes beyond the algebraic invariants

that have been studied to date It is for this reason that the results presented in this volume will be essential **Geometry of Four-manifolds** Simon K. Donaldson,1988 **Instantons and Four-Manifolds** D. S. Freed,K. K. Uhlenbeck,2012-12-06 This book is the outcome of a seminar organized by Michael Freedman and Karen Uhlenbeck the senior author at the Mathematical Sciences Research Institute in Berkeley during its first few months of existence Dan Freed the junior author was originally appointed as notetaker The express purpose of the seminar was to go through a proof of Simon Donaldson s Theorem which had been announced the previous spring Donaldson proved the nonsmoothability of certain topological four manifolds a year earlier Freedman had constructed these manifolds as part of his solution to the four dimensional Poincare conjecture The spectacular application of Donaldson s and Freedman s theorems to the existence of fake 1R4 s made headlines insofar as mathematics ever makes headlines Moreover Donaldson proved his theorem in topology by studying the solution space of equations the Yang Mills equations which come from ultra modern physics The philosophical implications are unavoidable we mathematicians need physics The seminar was initially very well attended Unfortunately we found after three months that we had covered most of the published material but had made little real progress towards giving a complete detailed proof Mter joint work extending over three cities and 3000 miles this book now provides such a proof The seminar bogged down in the hard analysis 56 59 which also takes up most of Donaldson s paper in less detail As we proceeded it became clear to us that the techniques in partial differential equations used in the proof differ strikingly from the geometric and topological material **The Wild World of 4-Manifolds** Alexandru Scorpan,2022-01-26 What a wonderful book I strongly recommend this book to anyone especially graduate students interested in getting a sense of 4 manifolds MAA Reviews The book gives an excellent overview of 4 manifolds with many figures and historical notes Graduate students nonexperts and experts alike will enjoy browsing through it Robion C Kirby University of California Berkeley This book offers a panorama of the topology of simply connected smooth manifolds of dimension four Dimension four is unlike any other dimension it is large enough to have room for wild things to happen but small enough so that there is no room to undo the wildness For example only manifolds of dimension four can exhibit infinitely many distinct smooth structures Indeed their topology remains the least understood today To put things in context the book starts with a survey of higher dimensions and of topological 4 manifolds In the second part the main invariant of a 4 manifold the intersection form and its interaction with the topology of the manifold are investigated In the third part as an important source of examples complex surfaces are reviewed In the final fourth part of the book gauge theory is presented this differential geometric method has brought to light how unwieldy smooth 4 manifolds truly are and while bringing new insights has raised more questions than answers The structure of the book is modular organized into a main track of about two hundred pages augmented by extensive notes at the end of each chapter where many extra details proofs and developments are presented To help the reader the text is peppered with over 250 illustrations and has an extensive index *Four-Manifold Theory* Cameron Gordon,1984 Covers the

proceedings of the Summer Research Conference on 4 manifolds held at Durham New Hampshire July 1982 under the auspices of the American Mathematical Society and National Science Foundation   The Wild World of 4-Manifolds Alexandru Scorpan,2005-05-10 What a wonderful book I strongly recommend this book to anyone especially graduate students interested in getting a sense of 4 manifolds MAA Reviews The book gives an excellent overview of 4 manifolds with many figures and historical notes Graduate students nonexperts and experts alike will enjoy browsing through it Robion C Kirby University of California Berkeley This book offers a panorama of the topology of simply connected smooth manifolds of dimension four Dimension four is unlike any other dimension it is large enough to have room for wild things to happen but small enough so that there is no room to undo the wildness For example only manifolds of dimension four can exhibit infinitely many distinct smooth structures Indeed their topology remains the least understood today To put things in context the book starts with a survey of higher dimensions and of topological 4 manifolds In the second part the main invariant of a 4 manifold the intersection form and its interaction with the topology of the manifold are investigated In the third part as an important source of examples complex surfaces are reviewed In the final fourth part of the book gauge theory is presented this differential geometric method has brought to light how unwieldy smooth 4 manifolds truly are and while bringing new insights has raised more questions than answers The structure of the book is modular organized into a main track of about two hundred pages augmented by extensive notes at the end of each chapter where many extra details proofs and developments are presented To help the reader the text is peppered with over 250 illustrations and has an extensive index

   Connections, Definite Forms, and Four-manifolds Ted Petrie,John D. Randall,1990 The central theme of this book is the study of the relationship between the geometry and topology of four manifolds The authors adopt a topologists perspective and present a lucid introduction to moduli space techniques and then apply them to four manifolds   **Four-manifolds, Geometries and Knots** Jonathan Arthur Hillman,2002   4-Manifolds and Kirby Calculus Robert E. Gompf,András I. Stipsicz,2023-08-10 Since the early 1980s there has been an explosive growth in 4 manifold theory particularly due to the influx of interest and ideas from gauge theory and algebraic geometry This book offers an exposition of the subject from the topological point of view It bridges the gap to other disciplines and presents classical but important topological techniques that have not previously appeared in the literature Part I of the text presents the basics of the theory at the second year graduate level and offers an overview of current research Part II is devoted to an exposition of Kirby calculus or handlebody theory on 4 manifolds It is both elementary and comprehensive Part III offers in depth treatments of a broad range of topics from current 4 manifold research Topics include branched coverings and the geography of complex surfaces elliptic and Lefschetz fibrations h cobordisms symplectic 4 manifolds and Stein surfaces The authors present many important applications The text is supplemented with over 300 illustrations and numerous exercises with solutions given in the book I greatly recommend this wonderful book to any researcher in 4 manifold topology for the novel ideas techniques constructions

and computations on the topic presented in a very fascinating way I think really that every student mathematician and researcher interested in 4 manifold topology should own a copy of this beautiful book Zentralblatt MATH This book gives an excellent introduction into the theory of 4 manifolds and can be strongly recommended to beginners in this field carefully and clearly written the authors have evidently paid great attention to the presentation of the material contains many really pretty and interesting examples and a great number of exercises the final chapter is then devoted to solutions of some of these this type of presentation makes the subject more attractive and its study easier European Mathematical Society Newsletter

Smooth Four-Manifolds and Complex Surfaces Robert Friedman,John W. Morgan,2014-01-15 **Instantons and Four-Manifolds** Daniel S Freed,Karen K Uhlenbeck,1990-12-03 **GAUGE THEORY AND THE TOPOLOGY OF FOUR-MANIFOLDS.** ROBERT. FRIEDMAN,1999 *Topology and Geometry of Manifolds* Gordana Matic,Clint McCrory,2003 Since 1961 the Georgia Topology Conference has been held every eight years to discuss the newest developments in topology The goals of the conference are to disseminate new and important results and to encourage interaction among topologists who are in different stages of their careers Invited speakers are encouraged to aim their talks to a broad audience and several talks are organized to introduce graduate students to topics of current interest Each conference results in high quality surveys new research and lists of unsolved problems some of which are then formally published Continuing in this 40 year tradition the AMS presents this volume of articles and problem lists from the 2001 conference Topics covered include symplectic and contact topology foliations and laminations and invariants of manifolds and knots Articles of particular interest include John Etnyre s Introductory Lectures on Contact Geometry which is a beautiful expository paper that explains the background and setting for many of the other papers This is an excellent introduction to the subject for graduate students in neighboring fields Etnyre and Lenhard Ng s Problems in Low Dimensional Contact Topology and Danny Calegari s extensive paper Problems in Foliations and Laminations of 3 Manifolds are carefully selected problems in keeping with the tradition of the conference They were compiled by Etnyre and Ng and by Calegari with the input of many who were present This book provides material of current interest to graduate students and research mathematicians interested in the geometry and topology of manifolds **Instantons and Four-Manifolds** Daniel Freed,K. K. Uhlenbeck,1984-08-24 This book is the outcome of a seminar organized by Michael Freedman and Karen Uhlenbeck the senior author at the Mathematical Sciences Research Institute in Berkeley during its first few months of existence Dan Freed the junior author was originally appointed as notetaker The express purpose of the seminar was to go through a proof of Simon Donaldson s Theorem which had been announced the previous spring Donaldson proved the nonsmoothability of certain topological four manifolds a year earlier Freedman had constructed these manifolds as part of his solution to the four dimensional Poincare conjecture The spectacular application of Donaldson s and Freedman s theorems to the existence of fake 1R4 s made headlines insofar as mathematics ever makes headlines Moreover Donaldson proved his theorem in topology

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