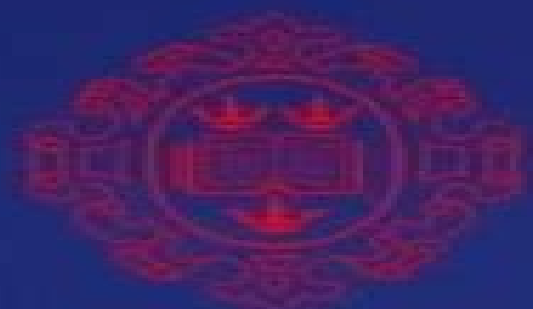


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# The Geometry of Four-Manifolds

S. K. DONALDSON  
and  
P. B. KRONHEIMER



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# Geometry Of Four Manifolds

**Michael Hoelscher**



## 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

*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 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 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

**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  $1R^4$  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. My 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.

**Gauge Theory and the Topology of Four-Manifolds** Robert Friedman, John W. Morgan, This text is part of the IAS Park City Mathematics series and focuses on gauge theory and the topology of four manifolds. *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.

**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.

**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 Kähler manifold and the algebraic

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

*Topological Quantum Field Theory and Four Manifolds* Jose Labastida, Marcos Marino, 2007-07-18 The emergence of topological quantum field theory has been one of the most important breakthroughs which have occurred in the context of mathematical physics in the last century a century characterized by independent developments of the main ideas in both disciplines physics and mathematics which has concluded with two decades of strong interaction between them where physics as in previous centuries has acted as a source of new mathematics Topological quantum field theories constitute the core of these phenomena although the main driving force behind it has been the enormous effort made in theoretical particle physics to understand string theory as a theory able to unify the four fundamental interactions observed in nature These theories set up a new realm where both disciplines profit from each other Although the most striking results have appeared on the mathematical side theoretical physics has clearly also benefited since the corresponding developments have helped better to understand aspects of the fundamentals of field and string theory

**Smooth Four-Manifolds and Complex Surfaces** Robert Friedman, John W. Morgan, 2014-01-15 *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

**Instantons and Four-Manifolds** Daniel S Freed, Karen K Uhlenbeck, 1990-12-03 *Symplectic 4-Manifolds and Algebraic Surfaces* Denis Auroux, Fabrizio Catanese, Marco Manetti, Gang Tian, Paul Seidel, Bernd Siebert, Ivan Smith, 2008-04-17 Modern approaches to the study of symplectic 4 manifolds and algebraic surfaces combine a wide range of techniques and sources of inspiration Gauge theory symplectic geometry pseudoholomorphic curves singularity theory moduli spaces braid groups monodromy in addition to classical topology and algebraic geometry combine to make this one of the most vibrant and active areas of research in mathematics It is our hope that the five lectures of the present volume given at the C I M E Summer School held in Cetraro Italy September 2-10 2003 will be useful to people working in related areas of mathematics and will become standard references on these topics The volume is a coherent exposition of an active field of current research focusing on the introduction of new methods for the study of moduli spaces of complex structures on algebraic surfaces and for the investigation of symplectic topology in dimension 4 and higher

*Instantons and Four-Manifolds* Daniel S. Freed, Karen K. Uhlenbeck, 2012-12-06 From the reviews of the first edition This book exposes the beautiful confluence of deep techniques and ideas from mathematical physics and the topological study of the differentiable structure of compact four dimensional manifolds compact spaces locally modeled on the world in which we live and operate The book is filled with insightful remarks proofs and contributions that have never before appeared in print For anyone attempting to understand the work of Donaldson and the applications of gauge theories

to four dimensional topology the book is a must Science 1 I would strongly advise the graduate student or working mathematician who wishes to learn the analytic aspects of this subject to begin with Freed and Uhlenbeck s book Bulletin of the American Mathematical Society 2      *Geometric Analysis and PDEs* Matthew J. Gursky,Ermanno Lanconelli,Gabriella Tarantello,Xu-Jia Wang,Paul C. Yang,2009-06-26 This volume contains lecture notes on key topics in geometric analysis a growing mathematical subject which uses analytical techniques mostly of partial differential equations to treat problems in differential geometry and mathematical physics      **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      **A Survey of Knot Theory** Akio Kawauchi,2012-12-06 Knot theory is a rapidly developing field of research with many applications not only for mathematics The present volume written by a well known specialist gives a complete survey of knot theory from its very beginnings to today s most recent research results The topics include Alexander polynomials Jones type polynomials and Vassiliev invariants With its appendix containing many useful tables and an extended list of references with over 3 500 entries it is an indispensable book for everyone concerned with knot theory The book can serve as an introduction to the field for advanced undergraduate and graduate students Also researchers working in outside areas such as theoretical physics or molecular biology will benefit from this thorough study which is complemented by many exercises and examples      *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  $1R^4$ '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 After 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

**Duration and Change** Michael Artin, Hanspeter Kraft, Reinhold Remmert, 2012-12-06 A volume containing original essays from quite diverse fields in mathematics is something of a rarity especially if renowned scientists show the width of their discipline to the reader This book is just such a rarity a veritable gem It was written to celebrate the 50th anniversary of the mathematical research institute at Oberwolfach The articles span a range of topics from general reflections on the place of mathematics in contemporary culture to essays dealing with aspects of algebra analysis geometry coding theory scientific computing and topology All essays are interrelated proving the old rule that you can divide and still conquer A book in which every mathematician or scientist interested in mathematics will find something to take their fancy

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