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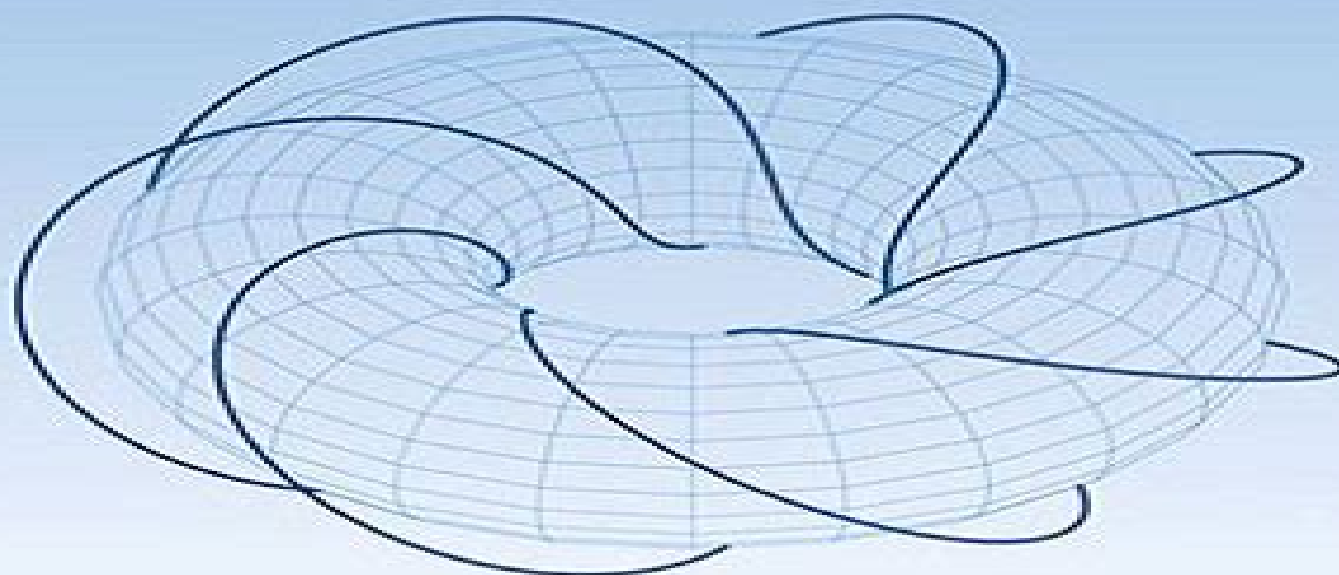
GRADUATE

Nikolai Saveliev

LECTURES ON THE TOPOLOGY OF 3-MANIFOLDS

AN INTRODUCTION TO THE CASSON INVARIANT

2ND, REVISED AND EXTENDED EDITION



Lectures On The Topology Of 3 Manifolds Lectures On The Topology Of 3 Manifolds

**Józef H. Przytycki, Rhea Palak
Bakshi, Dionne Ibarra, Gabriel Montoya-
Vega, Deborah Weeks**

Lectures On The Topology Of 3 Manifolds Lectures On The Topology Of 3 Manifolds:

Lectures on the Topology of 3-manifolds Nikolai Saveliev,1999 No detailed description available for Lectures on the Topology of 3 Manifolds *Lectures on Three-Manifold Topology* William H. Jaco,1980-12-31 This manuscript is a detailed presentation of the ten lectures given by the author at the NSF Regional Conference on Three Manifold Topology held October 1977 at Virginia Polytechnic Institute and State University The purpose of the conference was to present the current state of affairs in three manifold topology and to integrate the classical results with the many recent advances and new directions **Lectures on Three-manifold Topology** William Jaco,1977 **Lectures on Contact 3-Manifolds, Holomorphic Curves and Intersection Theory** Chris Wendl,2020-03-26 Intersection theory has played a prominent role in the study of closed symplectic 4 manifolds since Gromov's famous 1985 paper on pseudoholomorphic curves leading to myriad beautiful rigidity results that are either inaccessible or not true in higher dimensions Siefring's recent extension of the theory to punctured holomorphic curves allowed similarly important results for contact 3 manifolds and their symplectic fillings Based on a series of lectures for graduate students in topology this book begins with an overview of the closed case and then proceeds to explain the essentials of Siefring's intersection theory and how to use it and gives some sample applications in low dimensional symplectic and contact topology The appendices provide valuable information for researchers including a concise reference guide on Siefring's theory and a self contained proof of a weak version of the Micallef White theorem **Lectures in Knot Theory** Józef H. Przytycki,Rhea Palak Bakshi,Dionne Ibarra,Gabriel Montoya-Vega,Deborah Weeks,2024-03-15 This text is based on lectures delivered by the first author on various often nonstandard parts of knot theory and related subjects By exploring contemporary topics in knot theory including those that have become mainstream such as skein modules Khovanov homology and Gram determinants motivated by knots this book offers an innovative extension to the existing literature Each lecture begins with a historical overview of a topic and gives motivation for the development of that subject Understanding of most of the material in the book requires only a basic knowledge of topology and abstract algebra The intended audience is beginning and advanced graduate students advanced undergraduate students and researchers interested in knot theory and its relations with other disciplines within mathematics physics biology and chemistry Inclusion of many exercises open problems and conjectures enables the reader to enhance their understanding of the subject The use of this text for the classroom is versatile and depends on the course level and choices made by the instructor Suggestions for variations in course coverage are included in the Preface The lecture style and array of topical coverage are hoped to inspire independent research and applications of the methods described in the book to other disciplines of science An introduction to the topology of 3 dimensional manifolds is included in Appendices A and B Lastly Appendix C includes a Table of Knots *Lectures on Geometry* Edward Witten,Martin Bridson,Helmut Hofer,Marc Lackenby,Rahul Pandharipande,2017-02-09 This volume contains a collection of papers based on lectures delivered by

distinguished mathematicians at Clay Mathematics Institute events over the past few years It is intended to be the first in an occasional series of volumes of CMI lectures Although not explicitly linked the topics in this inaugural volume have a common flavour and a common appeal to all who are interested in recent developments in geometry They are intended to be accessible to all who work in this general area regardless of their own particular research interests

Geometrisation of 3-manifolds, 2010 The Geometrisation Conjecture was proposed by William Thurston in the mid 1970s in order to classify compact 3 manifolds by means of a canonical decomposition along essential embedded surfaces into pieces that possess geometric structures It contains the famous Poincaré Conjecture as a special case In 2002 Grigory Perelman announced a proof of the Geometrisation Conjecture based on Richard Hamilton's Ricci flow approach and presented it in a series of three celebrated arXiv preprints Since then there has been an ongoing effort to understand Perelman's work by giving more detailed and accessible presentations of his ideas or alternative arguments for various parts of the proof This book is a contribution to this endeavour Its two main innovations are first a simplified version of Perelman's Ricci flow with surgery which is called Ricci flow with bubbling off and secondly a completely different and original approach to the last step of the proof In addition special effort has been made to simplify and streamline the overall structure of the argument and make the various parts independent of one another A complete proof of the Geometrisation Conjecture is given modulo pre Perelman results on Ricci flow Perelman's results on the functional and solutions as well as the Colding Minicozzi extinction paper The book can be read by anyone already familiar with these results or willing to accept them as black boxes The structure of the proof is presented in a lengthy introduction which does not require knowledge of geometric analysis The bulk of the proof is the existence theorem for Ricci flow with bubbling off which is treated in parts I and II Part III deals with the long time behaviour of Ricci flow with bubbling off Part IV finishes the proof of the Geometrisation Conjecture

Fields Medallists' Lectures, 2nd Edition Michael Atiyah, Daniel Iagolnitzer, 2003-11-03 Although the Fields Medal does not have the same public recognition as the Nobel Prizes they share a similar intellectual standing It is restricted to one field that of mathematics and an age limit of 40 has become an accepted tradition Mathematics has in the main been interpreted as pure mathematics and this is not so unreasonable since major contributions in some applied areas can be and have been recognized with Nobel Prizes A list of Fields Medallists and their contributions provides a bird's eye view of mathematics over the past 60 years It highlights the areas in which at various times greatest progress has been made This volume does not pretend to be comprehensive nor is it a historical document On the other hand it presents contributions from Fields Medallists and so provides a highly interesting and varied picture The second edition of Fields Medallists Lectures features additional contributions from the following Medallists Kunihiro Kodaira 1954 Richard E Borcherds 1998 William T Gowers 1998 Maxim Kontsevich 1998 Curtis T McMullen 1998 and Vladimir Voevodsky 2002

Fields Medallists' Lectures Daniel Iagolnitzer, 2003 Although the Fields Medal does not have the same public recognition as the Nobel Prizes they share

a similar intellectual standing It is restricted to the field of mathematics and an age limit of 40 has become an accepted tradition This volume presents contributions from Fields Medallists

Lectures on Kähler Groups Pierre Py, 2025-03-25 A natural question that sits at the nexus of algebraic geometry differential geometry and geometric group theory is which groups can be realized as fundamental groups of compact Kähler manifolds called Kähler groups Roughly speaking the fundamental group of a manifold measures the number of holes Many restrictions are known and many examples are known but mathematicians are far from having a precise conjecture about which groups are Kähler The question serves as a fruitful connection between several major areas of geometry and complex analysis Py's book is an up to date pedagogical survey of the central theorems and methods for the study of Kähler groups including where illuminating detailed proofs It includes results of Gromov Schoen Napier Ramachandran Corlette Simpson Delzant Arapura and Nori The charm of the subject is that different methods yield information of different flavors and the challenge is to draw these threads together This book leans toward geometric group theory but it gives a coherent account of great value to anyone interested in Kähler groups and in Kähler manifolds more broadly The emphasis is on unity and cross fertilization among approaches

Homotopy Equivalences of 3-Manifolds and Deformation Theory of Kleinian Groups Richard Douglas Canary, Darryl McCullough, 2004 Three volume narrative history of 20th century

Lecture Notes On Generalized Heegaard Splittings Martin Scharlemann, Jennifer Schultens, Toshio Saito, 2016-04-25 This book is part of the series of three books arise from lectures organized by Hitoshi Murakami at RIMS Kyoto University in the summer of 2001 The lecture series was aimed at a broad audience that included many graduate students Its purpose lay in familiarizing the audience with the basics of 3 manifold theory and introducing some topics of current research The first portion of the lecture series was devoted to standard topics in the theory of 3 manifolds The middle portion was devoted to a brief study of Heegaard splittings and generalized Heegaard splittings In the standard schematic diagram for generalized Heegaard splittings Heegaard splittings are stacked on top of each other in a linear fashion This can cause confusion in those cases in which generalized Heegaard splittings possess interesting connectivity properties Fork complexes were invented in an effort to illuminate some of the more subtle issues arising in the study of generalized Heegaard splittings

Topological Classification of Integrable Systems A. T. Fomenko, 1991

Quasiconformal Mappings, Riemann Surfaces, and Teichmüller Spaces Yunping Jiang, Sudeb Mitra, 2012 This volume contains the proceedings of the AMS Special Session on Quasiconformal Mappings Riemann Surfaces and Teichmüller Spaces held in honor of Clifford J Earle from October 2-3 2010 in Syracuse New York This volume includes a wide range of papers on Teichmüller theory and related areas It provides a broad survey of the present state of research and the applications of quasiconformal mappings Riemann surfaces complex dynamical systems Teichmüller theory and geometric function theory The papers in this volume reflect the directions of research in different aspects of these fields and also give the reader an idea of how Teichmüller theory intersects with other areas of mathematics

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.

Lectures on Differential Geometry Bennett Chow, Yutze Chow, 2024-10-07 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. 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.

Dynamical Systems on 2- and 3-Manifolds Viatcheslav Z. Grines, Timur V. Medvedev, Olga V. Pochinka, 2016-11-11 This book provides an introduction to the topological classification of smooth structurally stable diffeomorphisms on closed orientable 2 and 3 manifolds. The topological classification is one of the main problems of the theory of dynamical systems, and the results presented in this book are mostly for dynamical systems satisfying Smale's Axiom A. The main results on the topological classification of discrete dynamical systems are widely scattered among many papers and surveys. This book presents these results fluidly, systematically, and for the first time in one publication. Additionally, this book discusses the recent results on the topological classification of Axiom A diffeomorphisms, focusing on the nontrivial effects of the dynamical systems on 2 and 3 manifolds. The classical methods and approaches, which are considered to be promising for further research, are also discussed. The reader needs to be familiar with the basic concepts of the qualitative theory of dynamical systems, which are presented in Part 1 for convenience. The book is accessible to ambitious undergraduates, graduates, and researchers in dynamical systems and low-dimensional topology. This volume consists of 10 chapters; each chapter contains its own set of references and a section on further reading. Proofs are presented

with the exact statements of the results In Chapter 10 the authors briefly state the necessary definitions and results from algebra geometry and topology When stating ancillary results at the beginning of each part the authors refer to other sources which are readily available *The Smith Conjecture* ,1984-05-01 The Smith Conjecture Conformal Geometry of Discrete Groups and Manifolds Boris N. Apanasov,2011-06-24 The aim of the Expositions is to present new and important developments in pure and applied mathematics Well established in the community over more than two decades the series offers a large library of mathematical works including several important classics The volumes supply thorough and detailed expositions of the methods and ideas essential to the topics in question In addition they convey their relationships to other parts of mathematics The series is addressed to advanced readers interested in a thorough study of the subject Editorial Board Lev Birbrair Universidade Federal do Cear Fortaleza Brasil Walter D Neumann Columbia University New York USA Markus J Pflaum University of Colorado Boulder USA Dierk Schleicher Jacobs University Bremen Germany Katrin Wendland University of Freiburg Germany Honorary Editor Victor P Maslov Russian Academy of Sciences Moscow Russia Titles in planning include Yuri A Bahturin Identical Relations in Lie Algebras 2019 Yakov G Berkovich Lev G Kazarin and Emmanuel M Zhmud Characters of Finite Groups Volume 2 2019 Jorge Herbert Soares de Lira Variational Problems for Hypersurfaces in Riemannian Manifolds 2019 Volker Mayer Mariusz Urba ski and Anna Zdunik Random and Conformal Dynamical Systems 2021 Ioannis Diamantis Bo tjan Gabrov ek Sofia Lambropoulou and Maciej Mroczkowski Knot Theory of Lens Spaces 2021 Handbook of Differential Geometry Franki J.E. Dillen, Leopold C.A. Verstraelen,2005-11-29 In the series of volumes which together will constitute the Handbook of Differential Geometry we try to give a rather complete survey of the field of differential geometry The different chapters will both deal with the basic material of differential geometry and with research results old and recent All chapters are written by experts in the area and contain a large bibliography In this second volume a wide range of areas in the very broad field of differential geometry is discussed as there are Riemannian geometry Lorentzian geometry Finsler geometry symplectic geometry contact geometry complex geometry Lagrange geometry and the geometry of foliations Although this does not cover the whole of differential geometry the reader will be provided with an overview of some its most important areas Written by experts and covering recent research Extensive bibliography Dealing with a diverse range of areas Starting from the basics

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