

Graduate Texts in Mathematics

W.B. Raymond Lickorish

An Introduction to Knot Theory



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An Introduction To Knot Theory Graduate Texts In Mathematics

Richard H. Crowell, Ralph Hartzler Fox



An Introduction To Knot Theory Graduate Texts In Mathematics:

An Introduction to Knot Theory W.B. Raymond Lickorish, 2012-12-06 This account is an introduction to mathematical knot theory the theory of knots and links of simple closed curves in three dimensional space Knots can be studied at many levels and from many points of view They can be admired as artifacts of the decorative arts and crafts or viewed as accessible intimations of a geometrical sophistication that may never be attained The study of knots can be given some motivation in terms of applications in molecular biology or by reference to parallels in equilibrium statistical mechanics or quantum field theory Here however knot theory is considered as part of geometric topology Motivation for such a topological study of knots is meant to come from a curiosity to know how the geometry of three dimensional space can be explored by knotting phenomena using precise mathematics The aim will be to find invariants that distinguish knots to investigate geometric properties of knots and to see something of the way they interact with more adventurous three dimensional topology The book is based on an expanded version of notes for a course for recent graduates in mathematics given at the University of Cambridge it is intended for others with a similar level of mathematical understanding In particular a knowledge of the very basic ideas of the fundamental group and of a simple homology theory is assumed it is after all more important to know about those topics than about the intricacies of knot theory

Introduction to Knot Theory Richard H. Crowell, Ralph H. Fox, 2008 Appropriate for advanced undergraduates and graduate students this text by two renowned mathematicians was hailed by the Bulletin of the American Mathematical Society as a very welcome addition to the mathematical literature 1963 edition

Handbook of Knot Theory William Menasco, Morwen Thistlethwaite, 2005-08-02 This book is a survey of current topics in the mathematical theory of knots For a mathematician a knot is a closed loop in 3 dimensional space imagine knotting an extension cord and then closing it up by inserting its plug into its outlet Knot theory is of central importance in pure and applied mathematics as it stands at a crossroads of topology combinatorics algebra mathematical physics and biochemistry Survey of mathematical knot theory Articles by leading world authorities Clear exposition not over technical Accessible to readers with undergraduate background in mathematics

Introduction to Knot Theory R. H. Crowell, R. H. Fox, 2012-12-06 Knot theory is a kind of geometry and one whose appeal is very direct because the objects studied are perceivable and tangible in everyday physical space It is a meeting ground of such diverse branches of mathematics as group theory matrix theory number theory algebraic geometry and differential geometry to name some of the more prominent ones It had its origins in the mathematical theory of electricity and in primitive atomic physics and there are hints today of new applications in certain branches of chemistry The outlines of the modern topological theory were worked out by Dehn Alexander Reidemeister and Seifert almost thirty years ago As a subfield of topology knot theory forms the core of a wide range of problems dealing with the position of one manifold imbedded within another This book which is an elaboration of a series of lectures given by Fox at Haverford College while a Philips Visitor there in the spring of 1956 is an attempt to make

the subject accessible to everyone. Primarily it is a text book for a course at the junior senior level but we believe that it can be used with profit also by graduate students. Because the algebra required is not the familiar commutative algebra a disproportionate amount of the book is given over to necessary algebraic preliminaries. Knot Theory and Its Applications Kunio Murasugi, 2009-12-29. Knot theory is a concept in algebraic topology that has found applications to a variety of mathematical problems as well as to problems in computer science, biological and medical research, and mathematical physics. This book is directed to a broad audience of researchers, beginning graduate students, and senior undergraduate students in these fields. The book contains most of the fundamental classical facts about the theory, such as knot diagrams, braid representations, Seifert surfaces, tangles, and Alexander polynomials; also included are key newer developments and special topics such as chord diagrams and covering spaces. The work introduces the fascinating study of knots and provides insight into applications to such studies as DNA research and graph theory. In addition, each chapter includes a supplement that consists of interesting historical as well as mathematical comments. The author clearly outlines what is known and what is not known about knots. He has been careful to avoid advanced mathematical terminology or intricate techniques in algebraic topology or group theory. There are numerous diagrams and exercises relating the material. The study of Jones polynomials and the Vassiliev invariants are closely examined. The book develops knot theory from an intuitive, geometric, combinatorial point of view, avoiding completely more advanced concepts and techniques from algebraic topology. Thus the emphasis is on a lucid and intuitive exposition accessible to a broader audience. The book, written in a stimulating and original style, will serve as a first approach to this interesting field for readers with various backgrounds in mathematics, physics, etc. It is the first text developing recent topics, such as the Jones polynomial and Vassiliev invariants, on a level accessible also for non-specialists in the field. Zentralblatt Math. **Knot Theory** Charles Livingston, 1993. This book uses only linear algebra and basic group theory to study the properties of knots. **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 **Introduction to Vassiliev Knot Invariants**

S. Chmutov, Sergei Vasil'evich Duzhin, J. Mostovoy, 2012-05-24 A detailed exposition of the theory with an emphasis on its combinatorial aspects **International Journal of Mathematical Combinatorics, Volume 4, 2016** Linfan Mao, The

mathematical combinatorics is a subject that applying combinatorial notion to all mathematics and all sciences for understanding the reality of things in the universe The International J Mathematical Combinatorics is a fully refereed international journal sponsored by the MADIS of Chinese Academy of Sciences and published in USA quarterly which publishes original research papers and survey articles in all aspects of mathematical combinatorics Smarandache multi spaces Smarandache geometries non Euclidean geometry topology and their applications to other sciences **An**

Introduction to Quantum and Vassiliev Knot Invariants David M. Jackson, Iain Moffatt, 2019-05-04 This book provides an accessible introduction to knot theory focussing on Vassiliev invariants quantum knot invariants constructed via representations of quantum groups and how these two apparently distinct theories come together through the Kontsevich invariant Consisting of four parts the book opens with an introduction to the fundamentals of knot theory and to knot invariants such as the Jones polynomial The second part introduces quantum invariants of knots working constructively from first principles towards the construction of Reshetikhin Turaev invariants and a description of how these arise through Drinfeld and Jimbo's quantum groups Its third part offers an introduction to Vassiliev invariants providing a careful account of how chord diagrams and Jacobi diagrams arise in the theory and the role that Lie algebras play The final part of the book introduces the Kontsevich invariant This is a universal quantum invariant and a universal Vassiliev invariant and brings together these two seemingly different families of knot invariants The book provides a detailed account of the construction of the Jones polynomial via the quantum groups attached to $sl(2)$ the Vassiliev weight system arising from $sl(2)$ and how these invariants come together through the Kontsevich invariant *The Mathematics of Knots* Markus Banagl, Denis

Vogel, 2010-11-25 The present volume grew out of the Heidelberg Knot Theory Semester organized by the editors in winter 2008/09 at Heidelberg University The contributed papers bring the reader up to date on the currently most actively pursued areas of mathematical knot theory and its applications in mathematical physics and cell biology Both original research and survey articles are presented numerous illustrations support the text The book will be of great interest to researchers in topology geometry and mathematical physics graduate students specializing in knot theory and cell biologists interested in the topology of DNA strands **High-dimensional Knot Theory** Andrew Ranicki, 2013-04-17 High dimensional knot theory

is the study of the embeddings of n dimensional manifolds in $n+2$ dimensional manifolds generalizing the traditional study of knots in the case $n=1$ The main theme is the application of the author's algebraic theory of surgery to provide a unified

treatment of the invariants of codimension 2 embeddings generalizing the Alexander polynomials and Seifert forms of classical knot theory Many results in the research literature are thus brought into a single framework and new results are obtained The treatment is particularly effective in dealing with open books which are manifolds with codimension 2 submanifolds such that the complement fibres over a circle The book concludes with an appendix by E Winkelnkemper on the history of open books

MATHEMATICAL COMBINATORICS (INTERNATIONAL BOOK SERIES), Vol.4, 2016 L. Mao, In this issue there are 18 published papers Paper 1 Smarandache Curves Paper 2 Pseudo Neighbourly Irregular Intuitionistic Fuzzy Graphs Paper 3 Knot polynomials Alexander polynomial Paper 4 Smarandache Curves Paper 5 Dually Flat Special Finsler Metrics Paper 6 Lft commutative algebras Paper 7 Finsler space with metric Paper 8 Nonsplit Roman Domination Paper 9 Cayley Graphs of Non Abelian Groups Paper 10 Fuzzy Semirings Paper 11 Wiener Indices Paper 12 Projective dimension Betti number Paper 13 k Metric Dimension of a Graph Paper 14 Radial Signed Graphs Paper 15 Geodesic Irredundant Sets Paper 16 Directed Pathos Block Line Cut Vertex Digraph Paper 17 Spherical chain Paper 18 Neighborhood prime labeling

Applications of Knot Theory American Mathematical Society. Short Course, 2009 Over the past 20 30 years knot theory has rekindled its historic ties with biology chemistry and physics as a means of creating more sophisticated descriptions of the entanglements and properties of natural phenomena from strings to organic compounds to DNA This volume is based on the 2008 AMS Short Course Applications of Knot Theory The aim of the Short Course and this volume while not covering all aspects of applied knot theory is to provide the reader with a mathematical appetizer in order to stimulate the mathematical appetite for further study of this exciting field No prior knowledge of topology biology chemistry or physics is assumed In particular the first three chapters of this volume introduce the reader to knot theory by Colin Adams topological chirality and molecular symmetry by Erica Flapan and DNA topology by Dorothy Buck The second half of this volume is focused on three particular applications of knot theory Louis Kauffman discusses applications of knot theory to physics Nadrian Seeman discusses how topology is used in DNA nanotechnology and Jonathan Simon discusses the statistical and energetic properties of knots and their relation to molecular biology

Hyperbolic Knot Theory Jessica S. Purcell, 2020-10-06 This book provides an introduction to hyperbolic geometry in dimension three with motivation and applications arising from knot theory Hyperbolic geometry was first used as a tool to study knots by Riley and then Thurston in the 1970s By the 1980s combining work of Mostow and Prasad with Gordon and Luecke it was known that a hyperbolic structure on a knot complement in the 3 sphere gives a complete knot invariant However it remains a difficult problem to relate the hyperbolic geometry of a knot to other invariants arising from knot theory In particular it is difficult to determine hyperbolic geometric information from a knot diagram which is classically used to describe a knot This textbook provides background on these problems and tools to determine hyperbolic information on knots It also includes results and state of the art techniques on hyperbolic geometry and knot theory to date The book was written to be interactive with many examples and exercises Some important results are left

to guided exercises The level is appropriate for graduate students with a basic background in algebraic topology particularly fundamental groups and covering spaces Some experience with some differential topology and Riemannian geometry will also be helpful

Knots In Hellas '98 - Proceedings Of The International Conference On Knot Theory And Its Ramifications Cameron McA Gordon, Vaughan F R Jones, Louis H Kauffman, Sofia Lambropoulou, Jozef H Przytycki, 2000-09-04 There have been exciting developments in the area of knot theory in recent years They include Thurston's work on geometric structures on 3 manifolds e g knot complements Gordon Luecke work on surgeries on knots Jones work on invariants of links in S^3 and advances in the theory of invariants of 3 manifolds based on Jones and Vassiliev type invariants of links Jones ideas and Thurston's idea are connected by the following path hyperbolic structures $PSL(2, \mathbb{C})$ representations character varieties quantization of the coordinate ring of the variety to skein modules i e Kauffman bracket skein module and finally quantum invariants of 3 manifolds This proceedings volume covers all those exciting topics

Quantum Invariants Tomotada Ohtsuki, 2002 This book provides an extensive and self contained presentation of quantum and related invariants of knots and 3 manifolds Polynomial invariants of knots such as the Jones and Alexander polynomials are constructed as quantum invariants i e invariants derived from representations of quantum groups and from the monodromy of solutions to the Knizhnik Zamolodchikov equation With the introduction of the Kontsevich invariant and the theory of Vassiliev invariants the quantum invariants become well organized Quantum and perturbative invariants the LMO invariant and finite type invariants of 3 manifolds are discussed The Chern-Simons field theory and the Wess-Zumino-Witten model are described as the physical background of the invariants Contents Knots and Polynomial Invariants Braids and Representations of the Braid Groups Operator Invariants of Tangles via Sliced Diagrams Ribbon Hopf Algebras and Invariants of Links Monodromy Representations of the Braid Groups Derived from the Knizhnik-Zamolodchikov Equation The Kontsevich Invariant Vassiliev Invariants Quantum Invariants of 3 Manifolds Perturbative Invariants of Knots and 3 Manifolds The LMO Invariant Finite Type Invariants of Integral Homology 3 Spheres Readership Researchers lecturers and graduate students in geometry topology and mathematical physics

[Grid Homology for Knots and Links](#) Peter S. Ozsváth, András I. Stipsicz, Zoltán Szabó, 2015-11-30 Starting from the combinatorial point of view on knots using their grid diagrams this book serves as an introduction to knot theory After a brief overview of the background material in the subject the book gives a self contained treatment of knot Floer homology from the point of view of grid diagrams

[Low Dimensional Topology and Number Theory](#) Masanori Morishita, Hiroaki Nakamura, Jun Ueki, 2025-03-02 This book is the result of research initiatives formed during the workshop Low Dimensional Topology and Number Theory XIII at Kyushu University in 2022 It is also dedicated to the memory of Professor Toshie Takata who has been a main figure of the session chairs for the series of annual workshops since 2009 The activity was aimed at understanding and deepening recent developments of lively and fruitful interactions between low dimensional topology and number theory over the past decades In this volume of proceedings the reader will find

research papers as well as survey articles including open problems at the interface between classical and quantum topology and algebraic and analytic number theory written by leading experts and active researchers in the respective fields Topics include among others the strong slope conjecture Kashiwara Vergne Lie algebra braids and fibered double branched covers of 3 manifolds Temperley Lieb Jones category and conformal blocks WRT invariants and false theta functions the colored Jones polynomial of the figure eight knot potential functions and A polynomials l adic Galois polylogarithms Dijkgraaf Witten invariants in Bloch groups analogies between knots and primes in arithmetic topology normalized Jones polynomials for rational links Iwasawa main conjecture Weber s class number problem The book provides a valuable resource for researchers and graduate students interested in topics related to both low dimensional topology and number theory

Intelligence of Low Dimensional Topology 2006 J. Scott Carter, 2007 This volume gathers the contributions from the international conference Intelligence of Low Dimensional Topology 2006 which took place in Hiroshima in 2006 The aim of this volume is to promote research in low dimensional topology with the focus on knot theory and related topics The papers include comprehensive reviews and some latest results

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