

Mathematical
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and
Monographs

Volume 95

Braid and Knot Theory in Dimension Four

Seiichi Kamada



American Mathematical Society

Braid And Knot Theory In Dimension Four

S Suzuki



Braid And Knot Theory In Dimension Four:

Braid and Knot Theory in Dimension Four Seiichi Kamada, 2002 Braid theory and knot theory are related via two famous results due to Alexander and Markov Alexander's theorem states that any knot or link can be put into braid form Markov's theorem gives necessary and sufficient conditions to conclude that two braids represent the same knot or link Thus one can use braid theory to study knot theory and vice versa In this book the author generalizes braid theory to dimension four He develops the theory of surface braids and applies it to study surface links In particular the generalized Alexander and Markov theorems in dimension four are given This book is the first to contain a complete proof of the generalized Markov theorem Surface links are studied via the motion picture method and some important techniques of this method are studied For surface braids various methods to describe them are introduced and developed the motion picture method the chart description the braid monodromy and the braid system These tools are fundamental to understanding and computing invariants of surface braids and surface links Included is a table of knotted surfaces with a computation of Alexander polynomials Braid techniques are extended to represent link homotopy classes The book is geared toward a wide audience from graduate students to specialists It would make a suitable text for a graduate course and a valuable resource for researchers

Encyclopedia of Knot Theory Colin Adams, Erica Flapan, Allison Henrich, Louis H. Kauffman, Lewis D. Ludwig, Sam Nelson, 2021-02-10 Knot theory is a fascinating mathematical subject with multiple links to theoretical physics This encyclopedia is filled with valuable information on a rich and fascinating subject Ed Witten Recipient of the Fields Medal I spent a pleasant afternoon perusing the Encyclopedia of Knot Theory It's a comprehensive compilation of clear introductions to both classical and very modern developments in the field It will be a terrific resource for the accomplished researcher and will also be an excellent way to lure students both graduate and undergraduate into the field Abigail Thompson Distinguished Professor of Mathematics at University of California Davis Knot theory has proven to be a fascinating area of mathematical research dating back about 150 years Encyclopedia of Knot Theory provides short interconnected articles on a variety of active areas in knot theory and includes beautiful pictures deep mathematical connections and critical applications Many of the articles in this book are accessible to undergraduates who are working on research or taking an advanced undergraduate course in knot theory More advanced articles will be useful to graduate students working on a related thesis topic to researchers in another area of topology who are interested in current results in knot theory and to scientists who study the topology and geometry of biopolymers Features Provides material that is useful and accessible to undergraduates postgraduates and full time researchers Topics discussed provide an excellent catalyst for students to explore meaningful research and gain confidence and commitment to pursuing advanced degrees Edited and contributed by top researchers in the field of knot theory

Knot Theory and Its Applications Krishnendu Gongopadhyay, Rama Mishra, 2016-09-21 This volume contains the proceedings of the ICTS program Knot Theory and Its

Applications KTH 2013 held from December 10 to 20, 2013 at IISER Mohali, India. The meeting focused on the broad area of knot theory and its interaction with other disciplines of theoretical science. The program was divided into two parts. The first part was a week-long advanced school which consisted of minicourses. The second part was a discussion meeting that was meant to connect the school to the modern research areas. This volume consists of lecture notes on the topics of the advanced school as well as surveys and research papers on current topics that connect the lecture notes with cutting edge research in the broad area of knot theory.

Surface-Knots in 4-Space Seiichi Kamada, 2017-03-28. This introductory volume provides the basics of surface knots and related topics not only for researchers in these areas but also for graduate students and researchers who are not familiar with the field. Knot theory is one of the most active research fields in modern mathematics. Knots and links are closed curves, one-dimensional manifolds in Euclidean 3-space, and they are related to braids and 3-manifolds. These notions are generalized into higher dimensions. Surface knots or surface links are closed surfaces, two-dimensional manifolds in Euclidean 4-space, which are related to two-dimensional braids and 4-manifolds. Surface knot theory treats not only closed surfaces but also surfaces with boundaries in 4-manifolds. For example, knot concordance and knot cobordism, which are also important objects in knot theory, are surfaces in the product space of the 3-sphere and the interval. Included in this book are basics of surface knots and the related topics of classical knots, the motion picture method, surface diagrams, handle surgeries, ribbon surface knots, spinning construction, knot concordance and 4-genus quandles, and their homology theory and two-dimensional braids.

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.

Surfaces in 4-Space Scott Carter, Seiichi Kamada, Masahico Saito, 2013-06-29. Surfaces in 4-Space, written by leading specialists in the field, discusses knotted surfaces in 4-dimensional space and surveys many of the known results in the area. Results on knotted surface diagrams, constructions of knotted surfaces, classically defined invariants, and new invariants defined via quandle homology theory are presented. The last chapter comprises many recent results and techniques for computation. New tables of quandles with a few elements and the homology groups thereof are included. This book contains many new illustrations of knotted surface diagrams. The reader of the book will become intimately aware of the subtleties in going from the classical case of knotted circles in 3-space to this higher-dimensional case. As a survey, the book is a guide book to the extensive literature on knotted surfaces and will become a useful reference for graduate students and researchers in mathematics and physics.

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 **Knots, Low-Dimensional Topology and Applications** Colin C. Adams,Cameron McA. Gordon,Vaughan F.R. Jones,Louis H. Kauffman,Sofia Lambropoulou,Kenneth C. Millett,Jozef H. Przytycki,Renzo Ricca,Radmila Sazdanovic,2019-06-26 This proceedings volume presents a diverse collection of high quality state of the art research and survey articles written by top experts in low dimensional topology and its applications The focal topics include the wide range of historical and contemporary invariants of knots and links and related topics such as three and four dimensional manifolds braids virtual knot theory quantum invariants braids skein modules and knot algebras link homology quandles and their homology hyperbolic knots and geometric structures of three dimensional manifolds the mechanism of topological surgery in physical processes knots in Nature in the sense of physical knots with applications to polymers DNA enzyme mechanisms and protein structure and function The contents is based on contributions presented at the International Conference on Knots Low Dimensional Topology and Applications Knots in Hellas 2016 which was held at the International Olympic Academy in Greece in July 2016 The goal of the international conference was to promote the exchange of methods and ideas across disciplines and generations from graduate students to senior researchers and to explore fundamental research problems in the broad fields of knot theory and low dimensional topology This book will benefit all researchers who wish to take their research in new directions to learn about new tools and methods and to discover relevant and recent literature for future study Lectures At Knots '96 S Suzuki,1997-07-04 This volume consists of ten lectures given at an international workshop conference on knot theory held in July 1996 at Waseda University Conference Center It was organised by the International Research Institute of Mathematical Society of Japan The workshop was attended by nearly 170 mathematicians from Japan and 14 other countries most of whom were specialists in knot theory The lectures can serve as an introduction to the field for advanced undergraduates graduates and also researchers working in areas such as theoretical physics **The Geometry of Heisenberg Groups** Ernst Binz,Sonja Pods,2008 The three dimensional Heisenberg group being a quite simple non commutative Lie group appears prominently in various applications of mathematics The goal of this book is to present basic geometric and algebraic properties of the Heisenberg group and its relation to other important mathematical structures the skew field of quaternions symplectic structures and representations and to describe some of its applications In particular the authors address such subjects as signal analysis and processing geometric optics and quantization In each case the authors present necessary details of the applied topic being considered This book manages to encompass a large variety of topics being easily accessible in its fundamentals It can be useful to students and researchers working in mathematics and in applied mathematics BOOK JACKET

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