



Surfaces In 4space

J. Scott Carter, Masahico Saito



Surfaces In 4space:

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 are presented 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

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

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.

Knotted Surfaces and Their Diagrams J. Scott Carter, Masahico Saito, 2023-12-06 In this book the authors develop the theory of knotted surfaces in analogy with the classical case of knotted curves in 3 dimensional space. In the first chapter knotted surface diagrams are defined and exemplified; these are generic surfaces in 3 space with crossing information given. The diagrams are further enhanced to give alternative descriptions. A knotted surface can be described as a movie, as a kind of labeled planar graph or as a sequence of words in which successive words are related by grammatical changes. In the second chapter the theory of Reidemeister moves is developed in the various contexts. The authors show how to unknot intricate examples using these moves. The third chapter reviews the braid theory of knotted surfaces. Examples of the Alexander isotopy are given and the braid movie moves are presented. In the fourth chapter properties of the projections of knotted surfaces are studied. Oriented surfaces in 4 space are shown to have planar projections without cusps and without branch points. Signs of triple points are studied. Applications of triple point smoothing that include proofs of triple point formulas and a proof of Whitney's congruence on normal Euler classes are presented. The fifth chapter indicates how to obtain presentations for the fundamental group and the Alexander modules. Key examples are worked in detail. The Seifert algorithm for knotted surfaces is presented and exemplified. The sixth chapter relates knotted surfaces and diagrammatic techniques to 2 categories. Solutions to the Zamolodchikov equations that are diagrammatically obtained are presented. The book contains over 200 illustrations that illuminate the text. Examples are worked out in detail and readers have the opportunity to learn first hand a series of remarkable geometric techniques.

Constrained Willmore Surfaces Áurea Casinhas Quintino, 2021-06-10 From Bäcklund to Darboux a comprehensive journey through the transformation theory of constrained Willmore surfaces with applications to constant mean curvature surfaces.

The Knotting of Surfaces in 4-space Charles Livingston, 1980

Low Dimensional Topology Hanna Nencka, 1999 The book has two main parts. The first is devoted to the Poincaré conjecture characterizations of PL manifolds covering quadratic forms of links and to categories in low dimensional topology that appear in connection with conformal and quantum field theory.

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.

Computer Algebra in Scientific Computing Andreas Weber, 2019-11-04 Although scientific computing is very often associated with numeric computations, the use of computer algebra methods in scientific computing has obtained considerable attention in the last two decades. Computer algebra methods are especially suitable for parametric analysis of the key properties of systems.

arising in scientific computing The expression based computational answers generally provided by these methods are very appealing as they directly relate properties to parameters and speed up testing and tuning of mathematical models through all their possible behaviors This book contains 8 original research articles dealing with a broad range of topics ranging from algorithms data structures and implementation techniques for high performance sparse multivariate polynomial arithmetic over the integers and rational numbers over methods for certifying the isolated zeros of polynomial systems to computer algebra problems in quantum computing **Bulletin of the American Mathematical Society** ,1904 Journal of Mathematics and Physics ,1922 Computer Graphics with An Introduction to Multimedia, 4th Edition Chopra Rajiv, This well written textbook discusses the concepts principles and applications of Computer Graphics in a simple precise and systematic manner It explains how to manipulate visual and geometric information by using the computational techniques It also incorporates several experiments to be performed in computer graphics and multimedia labs *Contributions* Massachusetts Institute of Technology. Department of Mathematics,1922 **Contribution from the Department of Mathematics** ,1926 *Contribution from the Department of Mathematics ...* Massachusetts Institute of Technology. Dept. of Mathematics,1922 Transactions of the American Mathematical Society American Mathematical Society,1919 Papers Arthur Ranum,1928 *The Fourth Dimension Simply Explained* Henry Parker Manning,1910 *School Science and Mathematics* ,1922 *A Treatise on the Circle and the Sphere* Julian Lowell Coolidge,1916

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