



Series on Knots and Everything — Vol. 20

THE MYSTERY OF KNOTS

Computer Programming for Knot Tabulation

Charilaos N. Anagnostis



World Scientific

Mystery Of Knots Computer Programming For Knot Tabulation

**Vasilii Olegovich Manturov, Denis
Petrovich Ilyutko**



Mystery Of Knots Computer Programming For Knot Tabulation:

The Mystery of Knots Charilaos N. Aneziris,1999 One of the most significant unsolved problems in mathematics is the complete classification of knots The main purpose of this book is to introduce the reader to the use of computer programming to obtain the table of knots The author presents this problem as clearly and methodically as possible starting from the very basics Mathematical ideas and concepts are extensively discussed and no advanced background is required **Mystery Of Knots, The: Computer Programming For Knot Tabulation**

Charilaos N Aneziris,1999-12-13 One of the most significant unsolved problems in mathematics is the complete classification of knots The main purpose of this book is to introduce the reader to the use of computer programming to obtain the table of knots The author presents this problem as clearly and methodically as possible starting from the very basics Mathematical ideas and concepts are extensively discussed and no advanced background is required The Mystery of Knots

Charilaos N. Aneziris,1999 One of the most significant unsolved problems in mathematics is the complete classification of knots The main purpose of this book is to introduce the reader to the use of computer programming to obtain the table of knots The author presents this problem as clearly and methodically as possible starting from the very basics Mathematical ideas and concepts are extensively discussed and no advanced background is required

Linknot: Knot Theory By Computer Slavik Vlado Jablan,Radmila Sazdanovic,2007-11-16 LinKnot Knot Theory by Computer provides a unique view of selected topics in knot theory suitable for students research mathematicians and readers with backgrounds in other exact sciences including chemistry molecular biology and physics The book covers basic notions in knot theory as well as new methods for handling open problems such as unknotting number braid family representatives invertibility amphicheirality undetectability non algebraic tangles polyhedral links and 2 2 moves Hands on computations using Mathematica or the webMathematica package LinKnot and beautiful illustrations facilitate better learning and understanding LinKnot is also a powerful research tool for experimental mathematics implementation of Caudron s ideas The use of Conway notation enables experimenting with large families of knots and links Conjectures discussed in the book are explained at length The beauty universality and diversity of knot theory is illuminated through various non standard applications mirror curves fullerenes self referential systems and KL automata **One-cocycles And**

Knot Invariants Thomas Fiedler,2023-01-04 One Cocycles and Knot Invariants is about classical knots i e smooth oriented knots in 3 space It introduces discrete combinatorial analysis in knot theory in order to solve a global tetrahedron equation This new technique is then used to construct combinatorial 1 cocycles in a certain moduli space of knot diagrams The construction of the moduli space makes use of the meridian and the longitude of the knot The combinatorial 1 cocycles are therefore lifts of the well known Conway polynomial of knots and they can be calculated in polynomial time The 1 cocycles can distinguish loops consisting of knot diagrams in the moduli space up to homology They give knot invariants when they are evaluated on canonical loops in the connected components of the moduli space They are a first candidate for numerical

knot invariants which can perhaps distinguish the orientation of knots *CRC Concise Encyclopedia of Mathematics* Eric W. Weisstein, 2002-12-12 Upon publication the first edition of the CRC Concise Encyclopedia of Mathematics received overwhelming accolades for its unparalleled scope readability and utility It soon took its place among the top selling books in the history of Chapman Hall CRC and its popularity continues unabated Yet also unabated has been the d **Combinatorial Knot Theory** Roger A Fenn, 2024-11-27 A classic knot is an embedded simple loop in 3 dimensional space It can be described as a 4 valent planar graph or network in the horizontal plane with the vertices or crossings corresponding to double points of a projection At this stage we have the shadow of the knot defined by the projection We can reconstruct the knot by lifting the crossings into two points in space one above the other This information is preserved at the vertices by cutting the arc which appears to go under the over crossing arc We can then act on this diagram of the knot using the famous Reidemeister moves to mimic the motion of the knot in space The result is classic combinatorial knot theory In recent years many different types of knot theories have been considered where the information stored at the crossings determines how the Reidemeister moves are used if at all In this book we look at all these new theories systematically in a way which any third year undergraduate mathematics student would understand This book can form the basis of an undergraduate course or as an entry point for a postgraduate studying topology **Knots and Physics** Louis H. Kauffman, 2013 An introduction to knot and link invariants as generalised amplitudes for a quasi physical process The demands of knot theory coupled with a quantum statistical framework create a context that naturally and powerfully includes an extraordinary range of interrelated topics in topology and mathematical physics **Virtual Knots** Vasilii Olegovich Manturov, Denis Petrovich Ilyutko, 2012 The book is the first systematic research completely devoted to a comprehensive study of virtual knots and classical knots as its integral part The book is self contained and contains up to date exposition of the key aspects of virtual and classical knot theory Virtual knots were discovered by Louis Kauffman in 1996 When virtual knot theory arose it became clear that classical knot theory was a small integral part of a larger theory and studying properties of virtual knots helped one understand better some aspects of classical knot theory and encouraged the study of further problems Virtual knot theory finds its applications in classical knot theory Virtual knot theory occupies an intermediate position between the theory of knots in arbitrary three manifold and classical knot theory In this book we present the latest achievements in virtual knot theory including Khovanov homology theory and parity theory due to V O Manturov and graph link theory due to both authors By means of parity one can construct functorial mappings from knots to knots filtrations on the space of knots refine many invariants and prove minimality of many series of knot diagrams Graph links can be treated as OC diagramless knot theory OCO such OC links OCO have crossings but they do not have arcs connecting these crossings It turns out however that to graph links one can extend many methods of classical and virtual knot theories in particular the Khovanov homology and the parity theory

Polynomial One-cocycles For Knots And Closed Braids Thomas Fiedler, 2019-08-27 Traditionally knot theory deals with

diagrams of knots and the search of invariants of diagrams which are invariant under the well known Reidemeister moves. This book goes one step beyond it gives a method to construct invariants for one parameter families of diagrams and which are invariant under higher Reidemeister moves. Luckily knots in 3 space often called classical knots can be transformed into knots in the solid torus without loss of information. It turns out that knots in the solid torus have a particularly rich topological moduli space. It contains many canonical loops to which the invariants for one parameter families can be applied in order to get a new sort of invariants for classical knots.

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