

 Series on Knots and Everything — Vol. 52

Algebraic Invariants of Links

2nd Edition

Jonathan Hillman



World Scientific

Algebraic Invariants Of Links

Ensheng Dong



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theory and spatial graph theory and their combinatorial generalizations to equivalence classes of diagrams that are preserved under a set of Reidemeister type moves The interconnections of these areas and their connections within the broader field of topology are illustrated by articles about knots and links in spatial graphs and symmetries of spatial graphs in and other 3 manifolds

Invariants of Boundary Link Cobordism Desmond Sheiham, 2003 An n dimensional μ component boundary link is a codimension 2 embedding of spheres $L \sqcup \mu S^1 \subset S^n$ such that there exist μ disjoint oriented embedded $n-1$ manifolds which span the components of L This title proceeds to compute the isomorphism class of $C_2(L)$

Derivatives of Links: Milnor's Concordance Invariants and Massey's Products Tim D. Cochran, 1990 We investigate higher order cohomology operations Massey products on complements of links of circles in S^3 These are known to be essentially equivalent to the lowercase Greek μ with macron invariants of John Milnor which detect whether or not the longitudes of the link lie in the n superscript th term of the lower central series of the fundamental group of the link complement We define a geometric derivative on the set of all links and use this to define higher order linking numbers which are shown to be pieces of Massey products

Three-Dimensional Link Theory and Invariants of Plane Curve Singularities. (AM-110), Volume 110 David Eisenbud, Walter D. Neumann, 2016-03-02 This book gives a new foundation for the theory of links in 3 space modeled on the modern development by Jaco Shalen Johannson Thurston et al of the theory of 3 manifolds The basic construction is a method of obtaining any link by splicing links of the simplest kinds namely those whose exteriors are Seifert fibered or hyperbolic This approach to link theory is particularly attractive since most invariants of links are additive under splicing Specially distinguished from this viewpoint is the class of links none of whose splice components is hyperbolic It includes all links constructed by cabling and connected sums in particular all links of singularities of complex plane curves One of the main contributions of this monograph is the calculation of invariants of these classes of links such as the Alexander polynomials monodromy and Seifert forms

Low Dimensional Topology Roger Fenn, 1985-07-25 In this volume which is dedicated to H Seifert are papers based on talks given at the Isle of Thorns conference on low dimensional topology held in 1982

Primes and Knots Toshitake Kohno, 2006 This volume deals systematically with connections between algebraic number theory and low dimensional topology Of particular note are various inspiring interactions between number theory and low dimensional topology discussed in most papers in this volume For example quite interesting are the use of arithmetic methods in knot theory and the use of topological methods in Galois theory Also expository papers in both number theory and topology included in the volume can help a wide group of readers to understand both fields as well as the interesting analogies and relations that bring them together

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