Operads in Algebra, Topology and Physics

Martin Markl
Steve Shnider
Jim Stasheff

Operads In Algebra Topology And Physics Mathematical Surveys And Monographs

Pramod M. Achar,Dijana Jakelić,Kailash C. Misra,Milen Yakimov

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Operads in Algebra, Topology and Physics Martin Markl,Steven Shnider,James D. Stasheff,2002 Operads are mathematical devices which describe algebraic structures of many varieties and in various categories From their beginnings in the 1960s they have developed to encompass such areas as combinatorics knot theory moduli spaces string field theory and deformation quantization   Categories in Algebra, Geometry and Mathematical Physics Alexei Davydov,2007 Category theory has become the universal language of modern mathematics This book is a collection of articles applying methods of category theory to the areas of algebra geometry and mathematical physics Among others this book contains articles on higher categories and their applications and on homotopy theoretic methods The reader can learn about the exciting new interactions of category theory with very traditional mathematical disciplines   *Operads And Universal Algebra - Proceedings Of The International Conference* Chengming Bai,Li Guo,Jean-louis Loday,2012-02-23 The book aims to exemplify the recent developments in operad theory in universal algebra and related topics in algebraic topology and theoretical physics The conference has established a better connection between mathematicians working on operads mainly the French team and mathematicians working in universal algebra primarily the Chinese team and to exchange problems methods and techniques from these two subject areas   **Higher Structures in Geometry and Physics** Alberto S. Cattaneo,Anthony Giaquinto,Ping Xu,2010-11-25 This book is centered around higher algebraic structures stemming from the work of Murray Gerstenhaber and Jim Stasheff that are now ubiquitous in various areas of mathematics such as algebra algebraic topology differential geometry algebraic geometry mathematical physics and in theoretical physics such as quantum field theory and string theory These higher algebraic structures provide a common language essential in the study of deformation quantization theory of algebroids and groupoids symplectic field theory and much more Each contribution in this volume expands on the ideas of Gerstenhaber and Stasheff The volume is intended for post graduate students mathematical and theoretical physicists and mathematicians interested in higher structures   *Topics in Hyperplane Arrangements* Marcelo Aguiar,Swapneel Mahajan,2017-11-22 This monograph studies the interplay between various algebraic geometric and combinatorial aspects of real hyperplane arrangements It provides a careful organized and unified treatment of several recent developments in the field and brings forth many new ideas and results It has two parts each divided into eight chapters and five appendices with background material Part I gives a detailed discussion on faces flats chambers cones gallery intervals lunes and other geometric notions associated with arrangements The Tits monoid plays a central role Another important object is the category of lunes which generalizes the classical associative operad Also discussed are the descent and lune identities distance functions on chambers and the combinatorics of the braid arrangement and related examples Part II studies the structure and representation theory of the Tits algebra of an arrangement It gives a detailed analysis of idempotents and Peirce decompositions and connects them to the classical theory of Eulerian idempotents It

introduces the space of Lie elements of an arrangement which generalizes the classical Lie operad This space is the last nonzero power of the radical of the Tits algebra It is also the socle of the left ideal of chambers and of the right ideal of Zie elements Zie elements generalize the classical Lie idempotents They include Dynkin elements associated to generic half spaces which generalize the classical Dynkin idempotent Another important object is the lune incidence algebra which marks the beginning of noncommutative M bius theory These ideas are also brought upon the study of the Solomon descent algebra The monograph is written with clarity and in sufficient detail to make it accessible to graduate students It can also serve as a useful reference to experts **The Economic Philosophy of the Internet of Things** James Juniper,2018-06-27 To properly understand the nature of the digital economy we need to investigate the phenomenon of a ubiquitous computing system UCS As defined by Robin Milner this notion implies the following characteristics i it will continually make decisions hitherto made by us ii it will be vast maybe 100 times today s systems iii it must continually adapt on line to new requirements and iv individual UCSs will interact with one another This book argues that neoclassical approaches to modelling economic behaviour based on optimal control by representative agents are ill suited to a world typified by concurrency decentralized control and interaction To this end it argues for the development of new process based approaches to analysis modelling and simulation The book provides the context both philosophical and mathematical for the construction and application of new rigorous and meaningful analytical tools In terms of social theory it adopts a Post Cognitivist approach the elements of which include the nature philosophy of Schelling Marx s critique of political economy Peircean Pragmatism Whitehead s process philosophy and Merleau Ponty s phenomenology of the flesh along with cognitive scientific notions of embodied cognition and neural Darwinism as well as more questionable notions of artificial intelligence that are encompassed by the rubric of perception and action without intelligence Simplicial Methods for Higher Categories Simona Paoli,2019-06-03 This monograph presents a new model of mathematical structures called weak n categories These structures find their motivation in a wide range of fields from algebraic topology to mathematical physics algebraic geometry and mathematical logic While strict n categories are easily defined in terms associative and unital composition operations they are of limited use in applications which often call for weakened variants of these laws The author proposes a new approach to this weakening whose generality arises not from a weakening of such laws but from the very geometric structure of its cells a geometry dubbed weak globularity The new model called weakly globular n fold categories is one of the simplest known algebraic structures yielding a model of weak n categories The central result is the equivalence of this model to one of the existing models due to Tamsamani and further studied by Simpson This theory has intended applications to homotopy theory mathematical physics and to long standing open questions in category theory As the theory is described in elementary terms and the book is largely self contained it is accessible to beginning graduate students and to mathematicians from a wide range of disciplines well beyond higher category theory The new model makes a

transparent connection between higher category theory and homotopy theory rendering it particularly suitable for category theorists and algebraic topologists Although the results are complex readers are guided with an intuitive explanation before each concept is introduced and with diagrams showing the interconnections between the main ideas and results

Coalgebraic Methods in Computer Science Barbara König,Henning Urbat,2024-07-25 This book constitutes the post conference proceedings of the 17th International Workshop on Coalgebraic Methods in Computer Science CMCS 2024 colocated with ETAPS 2024 held in Luxembourg in April 2024 The 10 papers included in these proceedings were carefully reviewed and selected from 15 submissions The papers cover a wide range of topics on theory logics and applications of coalgebras   Recent Advances in Representation Theory, Quantum Groups, Algebraic Geometry, and Related Topics Pramod M. Achar,Dijana Jakelić,Kailash C. Misra,Milen Yakimov,2014-08-27 This volume contains the proceedings of two AMS Special Sessions Geometric and Algebraic Aspects of Representation Theory and Quantum Groups and Noncommutative Algebraic Geometry held October 13 14 2012 at Tulane University New Orleans Louisiana Included in this volume are original research and some survey articles on various aspects of representations of algebras including Kac Moody algebras Lie superalgebras quantum groups toroidal algebras Leibniz algebras and their connections with other areas of mathematics and mathematical physics   **Geometric and Algebraic Topological Methods in Quantum Mechanics** G. Giachetta,L. Mangiarotti,Gennadi? Aleksandrovich Sardanashvili,2005 The book collects all the advanced methods of quantization in the last decade It presents in a compact way all the necessary up to date mathematical tools to be used in studying quantum problems   Rational Homotopy Theory and Differential Forms Phillip Griffiths,John Morgan,2013-10-02 This completely revised and corrected version of the well known Florence notes circulated by the authors together with E Friedlander examines basic topology emphasizing homotopy theory Included is a discussion of Postnikov towers and rational homotopy theory This is then followed by an in depth look at differential forms and de Tham s theorem on simplicial complexes In addition Sullivan s results on computing the rational homotopy type from forms is presented New to the Second Edition Fully revised appendices including an expanded discussion of the Hirsch lemma Presentation of a natural proof of a Serre spectral sequence result Updated content throughout the book reflecting advances in the area of homotopy theory With its modern approach and timely revisions this second edition of Rational Homotopy Theory and Differential Forms will be a valuable resource for graduate students and researchers in algebraic topology differential forms and homotopy theory

Noncommutative Algebraic Geometry Gwyn Bellamy,Daniel Rogalski,Travis Schedler,J. Toby Stafford,Michael Wemyss,2016-06-20 This book provides a comprehensive introduction to the interactions between noncommutative algebra and classical algebraic geometry   *Bimonoids for Hyperplane Arrangements* Marcelo Aguiar,Swapneel Mahajan,2020-03-19 The goal of this monograph is to develop Hopf theory in a new setting which features centrally a real hyperplane arrangement The new theory is parallel to the classical theory of connected Hopf algebras and relates to it when

specialized to the braid arrangement Joyal s theory of combinatorial species ideas from Tits theory of buildings and Rota s work on incidence algebras inspire and find a common expression in this theory The authors introduce notions of monoid comonoid bimonoid and Lie monoid relative to a fixed hyperplane arrangement They also construct universal bimonoids by using generalizations of the classical notions of shuffle and quasishuffle and establish the Borel Hopf Poincar Birkhoff Witt and Cartier Milnor Moore theorems in this setting This monograph opens a vast new area of research It will be of interest to students and researchers working in the areas of hyperplane arrangements semigroup theory Hopf algebras algebraic Lie theory operads and category theory **Nonassociative Mathematics and its Applications** Petr Vojtěchovský,Murray R. Bremner,J. Scott Carter,Anthony B. Evans,John Huerta,Michael K. Kinyon,G. Eric Moorhouse,Jonathan D. H. Smith,2019-01-14 Nonassociative mathematics is a broad research area that studies mathematical structures violating the associative law x yz xy z The topics covered by nonassociative mathematics include quasigroups loops Latin squares Lie algebras Jordan algebras octonions racks quandles and their applications This volume contains the proceedings of the Fourth Mile High Conference on Nonassociative Mathematics held from July 29 August 5 2017 at the University of Denver Denver Colorado Included are research papers covering active areas of investigation survey papers covering Leibniz algebras self distributive structures and rack homology and a sampling of applications ranging from Yang Mills theory to the Yang Baxter equation and Laver tables An important aspect of nonassociative mathematics is the wide range of methods employed from purely algebraic to geometric topological and computational including automated deduction all of which play an important role in this book Deformation Theory of Algebras and Their Diagrams Martin Markl,2012 This book brings together both the classical and current aspects of deformation theory The presentation is mostly self contained assuming only basic knowledge of commutative algebra homological algebra and category theory In the interest of readability some technically complicated proofs have been omitted when a suitable reference was available The relation between the uniform continuity of algebraic maps and topologized tensor products is explained in detail however as this subject does not seem to be commonly known and the literature is scarce The exposition begins by recalling Gerstenhaber s classical theory for associative algebras The focus then shifts to a homotopy invariant setup of Maurer Cartan moduli spaces As an application Kontsevich s approach to deformation quantization of Poisson manifolds is reviewed Then after a brief introduction to operads a strongly homotopy Lie algebra governing deformations of diagrams of algebras of a given type is described followed by examples and generalizations Algebra, Arithmetic, and Geometry Yuri Tschinkel,Yuri Zarhin,2010-08-05 EMAlgebra Arithmetic and Geometry In Honor of Yu I ManinEM consists of invited expository and research articles on new developments arising from Manin s outstanding contributions to mathematics **Chiral Algebras** Alexander Beilinson,Vladimir Drinfeld,2025-06-17 Chiral algebras form the primary algebraic structure of modern conformal field theory Each chiral algebra lives on an algebraic curve and in the special case where this curve is the affine line chiral

algebras invariant under translations are the same as well known and widely used vertex algebras The exposition of this book covers the following topics the classical counterpart of the theory which is an algebraic theory of non linear differential equations and their symmetries the local aspects of the theory of chiral algebras including the study of some basic examples such as the chiral algebras of differential operators the formalism of chiral homology treating the space of conformal blocks of the conformal field theory which is a quantum counterpart of the space of the global solutions of a differential equation The book will be of interest to researchers working in algebraic geometry and its applications to mathematical physics and representation theory   **Algebraic Operads** Jean-Louis Loday,Bruno Vallette,2012-08-08 In many areas of mathematics some higher operations are arising These havebecome so important that several research projects refer to such expressions Higher operationsform new types of algebras The key to understanding and comparing them to creating invariants of their action is operad theory This is a point of view that is 40 years old in algebraic topology but the new trend is its appearance in several other areas such as algebraic geometry mathematical physics differential geometry and combinatorics The present volume is the first comprehensive and systematic approach to algebraic operads An operad is an algebraic device that serves to study all kinds of algebras associative commutative Lie Poisson A infinity etc from a conceptual point of view The book presents this topic with an emphasis on Koszul duality theory After a modern treatment of Koszul duality for associative algebras the theory is extended to operads Applications to homotopy algebra are given for instance the Homotopy Transfer Theorem Although the necessary notions of algebra are recalled readers are expected to be familiar with elementary homological algebra Each chapter ends with a helpful summary and exercises A full chapter is devoted to examples and numerous figures are included After a low level chapter on Algebra accessible to advanced undergraduate students the level increases gradually through the book However the authors have done their best to make it suitable for graduate students three appendices review the basic results needed in order to understand the various chapters Since higher algebra is becoming essential in several research areas like deformation theory algebraic geometry representation theory differential geometry algebraic combinatorics and mathematical physics the book can also be used as a reference work by researchers

Monoidal Category Theory Noson S. Yanofsky,2024-11-05 A comprehensive cutting edge and highly readable textbook that makes category theory and monoidal category theory accessible to students across the sciences Category theory is a powerful framework that began in mathematics but has since expanded to encompass several areas of computing and science with broad applications in many fields In this comprehensive text Noson Yanofsky makes category theory accessible to those without a background in advanced mathematics Monoidal Category Theorydemonstrates the expansive uses of categories and in particular monoidal categories throughout the sciences The textbook starts from the basics of category theory and progresses to cutting edge research Each idea is defined in simple terms and then brought alive by many real world examples before progressing to theorems and uncomplicated proofs Richly guided exercises ground readers in concrete

computation and application The result is a highly readable and engaging textbook that will open the world of category theory to many Makes category theory accessible to non math majors Uses easy to understand language and emphasizes diagrams over equations Incremental iterative approach eases students into advanced concepts A series of embedded mini courses cover such popular topics as quantum computing categorical logic self referential paradoxes databases and scheduling and knot theory Extensive exercises and examples demonstrate the broad range of applications of categorical structures Modular structure allows instructors to fit text to the needs of different courses Instructor resources include slides

Alpine Perspectives on Algebraic Topology Christian Ausoni,Kathryn Hess,Jérôme Scherer,2009 Contains the proceedings of the Third Arolla Conference on Algebraic Topology which took place in Arolla Switzerland on August 18 24 2008 This title includes research papers on stable homotopy theory the theory of operads localization and algebraic K theory as well as survey papers on the Witten genus and localization techniques

The book delves into Operads In Algebra Topology And Physics Mathematical Surveys And Monographs. Operads In Algebra Topology And Physics Mathematical Surveys And Monographs is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Operads In Algebra Topology And Physics Mathematical Surveys And Monographs, encompassing both the fundamentals and more intricate discussions.

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