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Symmetric Functions and Combinatorial Operators on Polynomials

Alain Lascoux



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Symmetric Functions And Combinatorial Operators On Polynomials

Veronika Pillwein, Carsten Schneider



Symmetric Functions And Combinatorial Operators On Polynomials:

Symmetric Functions and Combinatorial Operators on Polynomials Alain Lascoux, The theory of symmetric functions is an old topic in mathematics which is used as an algebraic tool in many classical fields With lambda rings one can regard symmetric functions as operators on polynomials and reduce the theory to just a handful of fundamental formulas One of the main goals of the book is to describe the technique of lambda rings The main applications of this technique to the theory of symmetric functions are related to the Euclid algorithm and its occurrence in division continued fractions Pade approximants and orthogonal polynomials Putting the emphasis on the symmetric group instead of symmetric functions one can extend the theory to non symmetric polynomials with Schur functions being replaced by Schubert polynomials In two independent chapters the author describes the main properties of these polynomials following either the approach of Newton and interpolation methods or the method of Cauchy The last chapter sketches a non commutative version of symmetric functions using Young tableaux and the plactic monoid The book contains numerous exercises clarifying and extending many points of the main text It will make an excellent supplementary text for a graduate course in combinatorics *Symmetric functions and combinatorial operators on polynomials* Alain Lascoux, 2003

Representation Theory of Symmetric Groups Pierre-Loic Meliot, 2017-05-12 Representation Theory of Symmetric Groups is the most up to date abstract algebra book on the subject of symmetric groups and representation theory Utilizing new research and results this book can be studied from a combinatorial algorithmic or algebraic viewpoint This book is an excellent way of introducing today's students to representation theory of the symmetric groups namely classical theory From there the book explains how the theory can be extended to other related combinatorial algebras like the Iwahori Hecke algebra In a clear and concise manner the author presents the case that most calculations on symmetric group can be performed by utilizing appropriate algebras of functions Thus the book explains how some Hopf algebras symmetric functions and generalizations can be used to encode most of the combinatorial properties of the representations of symmetric groups Overall the book is an innovative introduction to representation theory of symmetric groups for graduate students and researchers seeking new ways of thought

Representation Theory of the Symmetric Groups Tullio Ceccherini-Silberstein, Fabio Scarabotti, Filippo Tolli, 2010-02-04 The representation theory of the symmetric groups is a classical topic that since the pioneering work of Frobenius Schur and Young has grown into a huge body of theory with many important connections to other areas of mathematics and physics This self contained book provides a detailed introduction to the subject covering classical topics such as the Littlewood Richardson rule and the Schur Weyl duality Importantly the authors also present many recent advances in the area including Lassalle's character formulas the theory of partition algebras and an exhaustive exposition of the approach developed by A M Vershik and A Okounkov A wealth of examples and exercises makes this an ideal textbook for graduate students It will also serve as a useful reference for more experienced researchers across a range of areas including algebra computer science

statistical mechanics and theoretical physics **Numerical Methods for Structured Matrices and Applications** Dario Andrea Bini, Volker Mehrmann, Vadim Olshevsky, Eugene Tyrtsyhnikov, Marc van Barel, 2011-02-09 This cross disciplinary volume brings together theoretical mathematicians engineers and numerical analysts and publishes surveys and research articles related to topics such as fast algorithms in which the late Georg Heinig made outstanding achievements

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

Algorithmic Combinatorics: Enumerative Combinatorics, Special Functions and Computer Algebra Veronika Pillwein, Carsten Schneider, 2020-09-28 The book is centered around the research areas of combinatorics special functions and computer algebra What these research fields share is that many of their outstanding results do not only have applications in Mathematics but also other disciplines such as computer science physics chemistry etc A particular charm of these areas is how they interact and influence one another For instance combinatorial or special functions techniques have motivated the development of new symbolic algorithms In particular first proofs of challenging problems in combinatorics and special functions were derived by making essential use of computer algebra This book addresses these interdisciplinary aspects Algorithmic aspects are emphasized and the corresponding software packages for concrete problem solving are introduced Readers will range from graduate students researchers to practitioners who are interested in solving concrete problems within mathematics and other research disciplines *Algebraic Cycles, Sheaves, Shtukas, and Moduli*

Piotr Pragacz, 2008-03-12 Articles examine the contributions of the great mathematician J M Hoene Wronski Although much of his work was dismissed during his lifetime it is now recognized that his work offers valuable insight into the nature of mathematics The book begins with elementary level discussions and ends with discussions of current research Most of the material has never been published before offering fresh perspectives on Hoene Wronski s contributions **Topology,**

$\mathcal{C}^*$ -Algebras, and String Duality Jonathan R_osenberg, 2009-10-27 String theory is the leading candidate for a physical theory that combines all the fundamental forces of nature as well as the principles of relativity and quantum mechanics into a mathematically elegant whole The mathematical tools used by string theorists are highly sophisticated and cover many areas

of mathematics As with the birth of quantum theory in the early 20th century the mathematics has benefited at least as much as the physics from the collaboration In this book based on CBMS lectures given at Texas Christian University Rosenberg describes some of the most recent interplay between string dualities and topology and operator algebras The book is an interdisciplinary approach to duality symmetries in string theory It can be read by either mathematicians or theoretical physicists and involves a more or less equal mixture of algebraic topology operator algebras and physics There is also a bit of algebraic geometry especially in the last chapter The reader is assumed to be somewhat familiar with at least one of these four subjects but not necessarily with all or even most of them The main objective of the book is to show how several seemingly disparate subjects are closely linked with one another and to give readers an overview of some areas of current research even if this means that not everything is covered systematically

Ergodic Theory, Groups, and Geometry Robert J. Zimmer, Dave Witte Morris, 2008-01-01 The study of group actions on manifolds is the meeting ground of a variety of mathematical areas In particular interesting geometric insights can be obtained by applying measure theoretic techniques This book provides an introduction to some of the important methods major developments and open problems in the subject It is slightly expanded from lectures given by Zimmer at the CBMS conference at the University of Minnesota The main text presents a perspective on the field as it was at that time Comments at the end of each chapter provide selected suggestions for further reading including references to recent developments BOOK JACKET

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