Symmetric Functions, Schubert Polynomials and Degeneracy Loci

Laurent Manivel

Symmetric Functions Schubert Polynomials And Degeneracy Loci

Olivier Biquard

Symmetric Functions Schubert Polynomials And Degeneracy Loci:

Symmetric Functions, Schubert Polynomials and Degeneracy Loci Laurent Manivel,2001 This text introduces combinatorics of symmetric functions in Schur and Schubert polynomials and examines the geometry of Grassmannians flag varieties and Schubert varieties defined by certain incidence conditions with fixed subspaces focusing on the connections that unite these subjects There is also a brief introduction to singular homology Originally published in French by Societe Mathematique de France in 1998 c Book News Inc **Schubert Varieties and Degeneracy Loci** William Fulton,Piotr Pragacz,2006-11-13 Schubert varieties and degeneracy loci have a long history in mathematics starting from questions about loci of matrices with given ranks These notes from a summer school in Thurnau aim to give an introduction to these topics and to describe recent progress on these problems There are interesting interactions with the algebra of symmetric functions and combinatorics as well as the geometry of flag manifolds and intersection theory and algebraic geometry *Schubert Calculus and Its Applications in Combinatorics and Representation Theory* Jianxun Hu,Changzheng Li,Leonardo C. Mihalcea,2020-10-24 This book gathers research papers and surveys on the latest advances in Schubert Calculus presented at the International Festival in Schubert Calculus held in Guangzhou China on November 6 10 2017 With roots in enumerative geometry and Hilbert s 15th problem modern Schubert Calculus studies classical and quantum intersection rings on spaces with symmetries such as flag manifolds The presence of symmetries leads to particularly rich structures and it connects Schubert Calculus to many branches of mathematics including algebraic geometry combinatorics representation theory and theoretical physics For instance the study of the quantum cohomology ring of a Grassmann manifold combines all these areas in an organic way The book is useful for researchers and graduate students interested in Schubert Calculus and more generally in the study of flag manifolds in relation to algebraic geometry combinatorics representation theory and mathematical physics *Advances in Algebra* Jörg Feldvoss,Lauren Grimley,Drew Lewis,Andrei Pavelescu,Cornelius Pillen,2019-02-27 This proceedings volume covers a range of research topics in algebra from the Southern Regional Algebra Conference SRAC that took place in March 2017 Presenting theory as well as computational methods featured survey articles and research papers focus on ongoing research in algebraic geometry ring theory group theory and associative algebras Topics include algebraic groups combinatorial commutative algebra computational methods for representations of groups and algebras group theory Hopf Galois theory hypergroups Lie superalgebras matrix analysis spherical and algebraic spaces and tropical algebraic geometry Since 1988 SRAC has been an important event for the algebra research community in the Gulf Coast Region and surrounding states building a strong network of algebraists that fosters collaboration in research and education This volume is suitable for graduate students and researchers interested in recent findings in computational and theoretical methods in algebra and representation theory **Encyclopedia of Special Functions: The Askey-Bateman Project: Volume 2, Multivariable Special Functions** Tom H. Koornwinder,Jasper V. Stokman,2020-10-15 This is the

second of three volumes that form the Encyclopedia of Special Functions an extensive update of the Bateman Manuscript Project Volume 2 covers multivariable special functions When the Bateman project appeared study of these was in an early stage but revolutionary developments began to be made in the 1980s and have continued ever since World renowned experts survey these over the course of 12 chapters each containing an extensive bibliography The reader encounters different perspectives on a wide range of topics from Dunkl theory to Macdonald theory to the various deep generalizations of classical hypergeometric functions to the several variables case including the elliptic level Particular attention is paid to the close relation of the subject with Lie theory geometry mathematical physics and combinatorics **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 *Recent Trends in Algebraic Combinatorics* Hélène Barcelo,Gizem Karaali,Rosa Orellana,2019-01-21 This edited volume features a curated selection of research in algebraic combinatorics that explores the boundaries of current knowledge in the field Focusing on topics experiencing broad interest and rapid growth invited contributors offer survey articles on representation theory symmetric functions invariant theory and the combinatorics of Young tableaux The volume also addresses subjects at the intersection of algebra combinatorics and geometry including the study of polytopes lattice points hyperplane arrangements crystal graphs and Grassmannians All surveys are written at an introductory level that emphasizes recent developments and open problems An interactive tutorial on Schubert Calculus emphasizes the geometric and topological aspects of the topic and is suitable for combinatorialists as well as geometrically minded researchers seeking to gain familiarity with relevant combinatorial tools Featured authors include prominent women in the field known for their exceptional writing of deep mathematics in an accessible manner Each article in this volume was reviewed independently by two referees The volume is suitable for graduate students and researchers interested in algebraic combinatorics **Hasse-Schmidt Derivations on Grassmann Algebras** Letterio Gatto,Parham Salehyan,2016-07-08 This book provides a comprehensive advanced multi linear algebra course based on the concept of Hasse Schmidt derivations on a Grassmann algebra an analogue of the Taylor expansion for real valued functions and shows how this notion provides a natural framework for many ostensibly unrelated subjects traces of an endomorphism and the Cayley Hamilton theorem

generic linear ODEs and their Wronskians the exponential of a matrix with indeterminate entries Putzer s method revisited universal decomposition of a polynomial in the product of two monic polynomials of fixed smaller degree Schubert calculus for Grassmannian varieties and vertex operators obtained with the help of Schubert calculus tools Giambelli s formula Significant emphasis is placed on the characterization of decomposable tensors of an exterior power of a free abelian group of possibly infinite rank which then leads to the celebrated Hirota bilinear form of the Kadomtsev Petviashvili KP hierarchy describing the Pl cker embedding of an infinite dimensional Grassmannian By gathering ostensibly disparate issues together under a unified perspective the book reveals how even the most advanced topics can be discovered at the elementary level

Combinatorial Commutative Algebra Ezra Miller,Bernd Sturmfels,2005-06-21 Recent developments are covered Contains over 100 figures and 250 exercises Includes complete proofs **Algebraic Combinatorics and Coinvariant Spaces** Francois Bergeron,2009-07-06 Written for graduate students in mathematics or non specialist mathematicians who wish to learn the basics about some of the most important current research in the field this book provides an intensive yet accessible introduction to the subject of algebraic combinatorics After recalling basic notions of combinatorics representation theory and *Selected Works of Richard P. Stanley* Victor Reiner,2017-05-17 Richard Stanley s work in combinatorics revolutionized and reshaped the subject Many of his hallmark ideas and techniques imported from other areas of mathematics have become mainstays in the framework of modern combinatorics In addition to collecting several of Stanley s most influential papers this volume also includes his own short reminiscences on his early years and on his celebrated proof of The Upper Bound Theorem **Lie Groups** Daniel Bump,2013-04-17 This book aims to be a course in Lie groups that can be covered in one year with a group of good graduate students I have attempted to address a problem that anyone teaching this subject must have which is that the amount of essential material is too much to cover One approach to this problem is to emphasize the beautiful representation theory of compact groups and indeed this book can be used for a course of this type if after Chapter 25 one skips ahead to Part III But I did not want to omit important topics such as the Bruhat decomposition and the theory of symmetric spaces For these subjects compact groups are not sufficient Part I covers standard general properties of representations of compact groups including Lie groups and other compact groups such as finite or p adic ones These include Schur orthogonality properties of matrix coefficients and the Peter Weyl Theorem *Asymptotically Symmetric Einstein Metrics* Olivier Biquard,2006 The correspondence between Einstein metrics and their conformal boundaries has recently been the focus of great interest This is particularly so in view of the relation with the physical theory of the AdS CFT correspondence In this book this correspondence is seen in the wider context of asymptotically symmetric Einstein metrics that is Einstein metrics whose curvature is asymptotic to that of a rank one symmetric space There is an emphasis on the correspondence between Einstein metrics and geometric structures on their boundary at infinity conformal structures CR structures and quaternionic contact structures introduced and studied in the book Two new constructions of

such Einstein metrics are given using two different kinds of techniques analytic methods to construct complete Einstein metrics with a unified treatment of all rank one symmetric spaces relying on harmonic analysis algebraic methods twistor theory to construct local solutions of the Einstein equation near the boundary *Lectures on Profinite Topics in Group Theory* Benjamin Klopsch,Nikolay Nikolov,Christopher Voll,2011-02-10 In this book three authors introduce readers to strong approximation methods analytic pro p groups and zeta functions of groups Each chapter illustrates connections between infinite group theory number theory and Lie theory The first introduces the theory of compact p adic Lie groups The second explains how methods from linear algebraic groups can be utilised to study the finite images of linear groups The final chapter provides an overview of zeta functions associated to groups and rings Derived from an LMS EPSRC Short Course for graduate students this book provides a concise introduction to a very active research area and assumes less prior knowledge than existing monographs or original research articles Accessible to beginning graduate students in group theory it will also appeal to researchers interested in infinite group theory and its interface with Lie theory and number theory **Polynomial Rings and Affine Algebraic Geometry** Shigeru Kuroda,Nobuharu Onoda,Gene Freudenburg,2020-03-27 This proceedings volume gathers selected peer reviewed works presented at the Polynomial Rings and Affine Algebraic Geometry Conference which was held at Tokyo Metropolitan University on February 12 16 2018 Readers will find some of the latest research conducted by an international group of experts on affine and projective algebraic geometry The topics covered include group actions and linearization automorphism groups and their structure as infinite dimensional varieties invariant theory the Cancellation Problem the Embedding Problem Mathieu spaces and the Jacobian Conjecture the Dolgachev Weisfeiler Conjecture classification of curves and surfaces real forms of complex varieties and questions of rationality unirationality and birationality These papers will be of interest to all researchers and graduate students working in the fields of affine and projective algebraic geometry as well as on certain aspects of commutative algebra Lie theory symplectic geometry and Stein manifolds **Algebraic Geometry** Elena Rubei,2014-05-27 Algebraic geometry is one of the most classic subjects of university research in mathematics It has a very complicated language that makes life very difficult for beginners This book is a little dictionary of algebraic geometry for every of the most common words in algebraic geometry it contains its definition several references and the statements of the main theorems about that term without their proofs Also some terms of other subjects close to algebraic geometry have been included It was born to help beginners that know some basic facts of algebraic geometry but not every basic fact to follow seminars and to read papers by providing them with basic definitions and statements The form of a dictionary makes it very easy and quick to consult The Mathematics of Shuffling Cards Persi Diaconis,Jason Fulman,2023-03-20 This book gives a lively development of the mathematics needed to answer the question How many times should a deck of cards be shuffled to mix it up The shuffles studied are the usual ones that real people use riffle overhand and smooshing cards around on the table The mathematics ranges from probability Markov chains

to combinatorics symmetric function theory to algebra Hopf algebras There are applications to magic tricks and gambling along with a careful comparison of the mathematics to the results of real people shuffling real cards The book explores links between shuffling and higher mathematics Lie theory algebraic topology the geometry of hyperplane arrangements stochastic calculus number theory and more It offers a useful springboard for seeing how probability theory is applied and leads to many corners of advanced mathematics The book can serve as a text for an upper division course in mathematics statistics or computer science departments and will be appreciated by graduate students and researchers in mathematics statistics and computer science as well as magicians and people with a strong background in mathematics who are interested in games that use playing cards *Interactions with Lattice Polytopes* Alexander M. Kasprzyk,Benjamin Nill,2022-06-08 This book collects together original research and survey articles highlighting the fertile interdisciplinary applications of convex lattice polytopes in modern mathematics Covering a diverse range of topics including algebraic geometry mirror symmetry symplectic geometry discrete geometry and algebraic combinatorics the common theme is the study of lattice polytopes These fascinating combinatorial objects are a cornerstone of toric geometry and continue to find rich and unforeseen applications throughout mathematics The workshop Interactions with Lattice Polytopes assembled many top researchers at the Otto von Guericke Universit t Magdeburg in 2017 to discuss the role of lattice polytopes in their work and many of their presented results are collected in this book Intended to be accessible these articles are suitable for researchers and graduate students interested in learning about some of the wide ranging interactions of lattice polytopes in pure mathematics

Advances in Analysis and Geometry Tao Qian,Thomas Hempfling,Alan McIntosh,Franciscus Sommen,2012-12-06 On the 16th of October 1843 Sir William R Hamilton made the discovery of the quaternion algebra H qo qli q2j q3k whereby the product is determined by the defining relations 2 2 1 Z ij ji k In fact he was inspired by the beautiful geometric model of the complex numbers in which rotations are represented by simple multiplications z t az His goal was to obtain an algebra structure for three dimensional visual space with in particular the possibility of representing all spatial rotations by algebra multiplications and since 1835 he started looking for generalized complex numbers hypercomplex numbers of the form a bi cj It hence took him a long time to accept that a fourth dimension was necessary and that commutativity couldn t be kept and he wondered about a possible real life meaning of this fourth dimension which he identified with the scalar part qo as opposed to the vector part ql i q2j q3k which represents a point in space *Invitation to Nonlinear Algebra* Mateusz Michałek,Bernd Sturmfels,2021-03-05 Nonlinear algebra provides modern mathematical tools to address challenges arising in the sciences and engineering It is useful everywhere where polynomials appear in particular data and computational sciences statistics physics optimization The book offers an invitation to this broad and fast developing area It is not an extensive encyclopedia of known results but rather a first introduction to the subject allowing the reader to enter into more advanced topics It was designed as the next step after linear algebra and well before abstract algebraic geometry The book

presents both classical topics like the Nullstellensatz and primary decomposition and more modern ones like tropical geometry and semidefinite programming The focus lies on interactions and applications Each of the thirteen chapters introduces fundamental concepts The book may be used for a one semester course and the over 200 exercises will help the readers to deepen their understanding of the subject

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