Symmetric Functions and Orthogonal Polynomials

I. G. Macdonald

One of the most classical areas of algebra, the theory of symmetric functions and orthogonal polynomials has long been known to be connected to combinatorics, representation theory, and other branches of mathematics. Written by perhaps the most famous author on the topic, this volume explains some of the current developments regarding these connections. It is based on lectures presented by the author at Rutgers University. Specifically, he gives recent results on orthogonal polynomials associated with affine Hecke algebras, surveying the proofs of certain famous combinatorial conjectures.

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Francesco Aldo Costabile,Maria Italia Gualtieri,Anna Napoli

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Symmetric Functions and Orthogonal Polynomials Ian Grant Macdonald,1998 One of the most classical areas of algebra the theory of symmetric functions and orthogonal polynomials has long been known to be connected to combinatorics representation theory and other branches of mathematics Written by perhaps the most famous author on the topic this volume explains some of the current developments regarding these connections It is based on lectures presented by the author at Rutgers University Specifically he gives recent results on orthogonal polynomials associated with affine Hecke algebras surveying the proofs of certain famous combinatorial conjectures **Symmetric Functions and Hall Polynomials** Ian Grant Macdonald,1998 This is a paperback version of the second much expanded edition of Professor Macdonald s acclaimed monograph on symmetric functions and Hall polynomials Almost every chapter has new sections and new examples have been included throughout Extra material in the appendix to Chapter 1 for example includes an account of the related theory of polynomial representations of the general linear groups always in characteristic zero Chapters 6 and 7 are new to the second edition Chapter 6 contains an extended account of a family of symmetric functions depending rationally on two parameters These symmetric functions include as particular cases many of those encountered earlier in the book but they also include as a limiting case Jack s symmetric functions depending on a parameter Many of the properties of the Schur functions generalize to these two parameter symmetric functions but the proofs at present are usually more elaborate Chapter 7 is devoted to the study of the zonal polynomials long familiar to statisticians From one point of view they are a special case of Jack s symmetric functions the parameter being equal to 2 but their combinatorial and group theoretic connections make them worthy of study in their own right From reviews of the first edition Despite the amount of material of such great potential interest to mathematicians the theory of symmetric functions remains all but unknown to the persons it is most likely to benefit Hopefully this beautifully written book will put an end to this state of affairs I have no doubt that this book will become the definitive reference on symmetric functions and their applications Bulletin of the AMS In addition to providing a self contained and coherent account of well known and classical work there is a great deal which is original The book is dotted with gems both old and new It is a substantial and valuable volume and will be regarded as the authoritative source which has been long awaited in this subject LMS book reviews From reviews of the second edition Evidently this second edition will be the source and reference book for symmetric functions in the near future Zbl Math **Symmetric Functions and Combinatorial Operators on Polynomials** Alain Lascoux,2003 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 and the diagonalization of a kernel generalizing the resultant The last chapter sketches a non commutative version of symmetric functions with the help of Young tableaux and the plactic monoid The book also contains numerous exercises clarifying and extending many points of the main text   Symmetric Functions and Hall Polynomials I. G. Macdonald,1979   **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 itsoccurrence 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 independentchapters 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   **q-Difference Operators, Orthogonal Polynomials, and Symmetric Expansions** Douglas Bowman,2002 The author explores ramifications and extensions of a q difference operator method first used by L J Rogers for deriving relationships between special functions involving certain fundamental q symmetric polynomials In special cases these symmetric polynomials reduce to well known classes of orthogonal polynomials A number of basic properties of these polynomials follow from this approach This leads naturally to the evaluation of the Askey Wilson integral and generalizations Expansions of certain generalized basic hypergeometric functions in terms of the symmetric polynomials are also found This provides a quick route to understanding the group structure generated by iterating the two term transformations of these functions Some infrastructure is also laid for more general investigations in the future   Representation of Lie Groups and Special Functions N.Ja. Vilenkin,A.U. Klimyk,2013-04-17 In 1991 1993 our three volume book Representation of Lie Groups and Spe cial Functions was published When we started to write that book in 1983 editors of Kluwer Academic Publishers expressed their wish for the book to be of encyclopaedic type on the subject Interrelations between representations of Lie groups and special functions are very wide This width can be explained by existence of different types of Lie groups and by richness of the theory of their rep resentations This is why the book mentioned above spread to three big volumes Influence

of representations of Lie groups and Lie algebras upon the theory of special functions is lasting This theory is developing further and methods of the representation theory are of great importance in this development When the book Representation of Lie Groups and Special Functions vol 1 3 was under preparation new directions of the theory of special functions connected with group representations appeared New important results were discovered in the traditional directions This impelled us to write a continuation of our three volume book on relationship between representations and special functions The result of our further work is the present book The three volume book published before was devoted mainly to studying classical special functions and orthogonal polynomials by means of matrix elements Clebsch Gordan and Racah coefficients of group representations and to generaliza tions of classical special functions that were dictated by matrix elements of repre sentations *Special Functions and Generalized Sturm-Liouville Problems* Mohammad Masjed-Jamei,2020-01-25 This book discusses theoretical and applied aspects of Sturm Liouville theory and its generalization It introduces and classifies generalized Sturm Liouville problems in three different spaces continuous discrete and q discrete spaces focusing on special functions that are solutions of a regular or singular Sturm Liouville problem Further it describes the conditions under which the usual Sturm Liouville problems with symmetric solutions can be extended to a larger class particularly highlighting the solutions of generalized problems that result in new orthogonal sequences of continuous or discrete functions Sturm Liouville theory is central to problems in many areas such as engineering mathematics physics and biology This accessibly written book on the topic is a valuable resource for a broad interdisciplinary readership from novices to experts **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 **Basic Hypergeometric Series** George Gasper,Mizan Rahman,2011-02-25 Significant revision of classic reference in special functions **Quantum Topology - Proceedings Of The Conference** David N Yetter,1994-08-19 This volume contains the conference on quantum topology held at Kansas State University Manhattan KS 24 28 March 1993 Quantum topology is a rapidly growing field of mathematics dealing with the recently discovered interactions between low dimensional topology the theory of quantum groups category theory C algebra theory gauge theory conformal and topological field theory and statistical mechanics The conference attended by over 60

mathematicians and theoretical physicists from Canada Denmark England France Japan Poland and the United States was highlighted by lecture series given by Louis Kauffman Univ of Illinois at Chicago and Nicholai Reshetikhin Univ of Califonia Berkeley **Jack, Hall-Littlewood and Macdonald Polynomials** Vadim B. Kuznetsov,Siddhartha Sahi,2006 The subject of symmetric functions began with the work of Jacobi Schur Weyl Young and others on the Schur polynomials In the 1950 s and 60 s far reaching generalizations of Schur polynomials were obtained by Hall and Littlewood independently and in a different direction by Jack In the 1980 s Macdonald unified these developments by introducing a family of polynomials associated with arbitrary root systems The last twenty years have witnessed considerable progress in this area revealing new and profound connections with representation theory algebraic geometry combinatorics special functions classical analysis and mathematical physics All these fields and more are represented in this volume which contains the proceedings of a conference on Jack Hall Littlewood and Macdonald polynomials held at ICMS Edinburgh during September 23 26 2003 of historical material including brief biographies of Hall Littlewood Jack and Macdonald the original papers of Littlewood and Jack notes on Hall s work by Macdonald and a recently discovered unpublished manuscript by Jack annotated by Macdonald The book will be invaluable to students and researchers who wish to learn about this beautiful and exciting subject

Quantum Groups Petr P. Kulish,2007-02-08 The theory of Quantum Groups is a rapidly developing area with numerous applications in mathematics and theoretical physics e g in link and knot invariants in topology q special functions conformal field theory quantum integrable models The aim of the Euler Institute s workshops was to review and compile the progress achieved in the different subfields Near 100 participants came from 14 countries More than 20 contributions written up for this book contain new unpublished material and half of them include a survey of recent results in the field deformation theory graded differential algebras contraction technique knot invariants q special functions FROM THE CONTENTS V G Drinfeld On Some Unsolved Problems in Quantum Group Theory M Gerstenhaber A Giaquinto S D Schack Quantum Symmetry L I Korogodsky L L Vaksman Quantum G Spaces and Heisenberg Algebra J Stasheff Differential Graded Lie Algebras Quasi Hopf Algebras and Higher Homotopy Algebras A Yu Alekseev L D Faddeev M A Semenov Tian Shansky Hidden Quantum Groups inside Kac Moody Algebras J L Gervais Quantum Group Symmetry of 2D Gravity T Kohno Invariants of 3 Manifolds Based on Conformal Field Theory and Heegaard Splitting O Viro Moves of Triangulations of a PL Manifold **Macdonald Polynomials** Masatoshi Noumi,2023-09-08 This book is a volume of the Springer Briefs in Mathematical Physics and serves as an introductory textbook on the theory of Macdonald polynomials It is based on a series of online lectures given by the author at the Royal Institute of Technology KTH Stockholm in February and March 2021 Macdonald polynomials are a class of symmetric orthogonal polynomials in many variables They include important classes of special functions such as Schur functions and Hall Littlewood polynomials and play important roles in various fields of mathematics and mathematical physics After an overview of Schur functions the author introduces Macdonald polynomials of type A in the GLn version as

eigenfunctions of a q difference operator called the Macdonald Ruijsenaars operator in the ring of symmetric polynomials Starting from this definition various remarkable properties of Macdonald polynomials are explained such as orthogonality evaluation formulas and self duality with emphasis on the roles of commuting q difference operators The author also explains how Macdonald polynomials are formulated in the framework of affine Hecke algebras and q Dunkl operators   <u>Number Theory</u> David Chudnovsky,Gregory Chudnovsky,Melvyn B. Nathanson,2011-06-27 This volume marks the 20th anniversary of the New York Number Theory Sem inar NYNTS The seminar began to meet in the Spring 1982 semester at the CUNY Graduate Center in midtown Manhattan and has been meeting contin uously at the Graduate Center for two decades even as the Graduate Center moved from its original location on 42nd Street near Fifth Avenue to tempo rary quarters in an office building next to Grand Central Station to a new and elegant building in the former B Altman department store on Fifth Avenue betwen 34th and 35th Streets The seminar was originally organized by Harvey Cohn David and Gregory Chudnovsky and Melvyn B Nathanson In 1982 Harvey Cohn was at City College CUNY and the Graduate Center the Chudnovskys were at Columbia and Mel Nathanson was at Rutgers Today Harvey has retired to California the Chudnovskys are at Polytechic University of New York and Nathanson is at Lehman College CUNY and the Graduate Center   <u>Quantum Foundations And Open Quantum Systems: Lecture Notes Of The Advanced School</u> Theo M Nieuwenhuizen,Claudia Pombo,Claudio Furtado,Andrei Yu Khrennikov,Inacio A Pedrosa,Vaclav Spicka,2014-10-03 The Advanced School on Quantum Foundations and Open Quantum Systems was an exceptional combination of lectures These comprise lectures in standard physics and investigations on the foundations of quantum physics On the one hand it included lectures on quantum information quantum open systems quantum transport and quantum solid state On the other hand it included lectures on quantum measurement models for elementary particles sub quantum structures and aspects on the philosophy and principles of quantum physics The special program of this school offered a broad outlook on the current and near future fundamental research in theoretical physics The lectures are at the level of PhD students   *Extrapolation and Rational Approximation* Claude Brezinski,Michela Redivo-Zaglia,2020-11-30 This book paints a fresco of the field of extrapolation and rational approximation over the last several centuries to the present through the works of their primary contributors It can serve as an introduction to the topics covered including extrapolation methods Pad approximation orthogonal polynomials continued fractions Lanczos type methods etc it also provides in depth discussion of the many links between these subjects A highlight of this book is the presentation of the human side of the fields discussed via personal testimonies from contemporary researchers their anecdotes and their exclusive remembrances of some of the actors This book shows how research in this domain started and evolved Biographies of other scholars encountered have also been included An important branch of mathematics is described in its historical context opening the way to new developments After a mathematical introduction the book contains a precise description of the mathematical landscape of these fields spanning from the 19th century to the first part of the

20th After an analysis of the works produced after that period in particular those of Richardson Aitken Shanks Wynn and others the most recent developments and applications are reviewed   *Polynomial Sequences* Francesco Aldo Costabile,Maria Italia Gualtieri,Anna Napoli,2023-12-18 Polynomials are useful mathematical tools They are simply defined and can be calculated quickly on computer systems They can be differentiated and integrated easily and can be pieced together to form spline curves After Weierstrass approximation Theorem polynomial sequences have acquired considerable importance not only in the various branches of Mathematics but also in Physics Chemistry and Engineering disciplines There is a wide literature on specific polynomial sequences But there is no literature that attempts a systematic exposition of the main basic methods for the study of a generic polynomial sequence and at the same time gives an overview of the main polynomial classes and related applications at least in numerical analysis In this book through an elementary matrix calculus based approach an attempt is made to fill this gap by exposing dated and very recent results both theoretical and applied

Formal Power Series and Algebraic Combinatorics (Series Formelles et Combinatoire Algebrique), 1994 Louis J. Billera,1996 Because of the interplay among many fields of mathematics and science algebraic combinatorics is an area in which a wide variety of ideas and methods come together The papers in this volume reflect the most interesting aspects of this rich interaction and will be of interest to researchers in discrete mathematics and combinatorial systems   Stochastic Analysis and Applications 2014 Dan Crisan,Ben Hambly,Thaleia Zariphopoulou,2014-12-13 Articles from many of the main contributors to recent progress in stochastic analysis are included in this volume which provides a snapshot of the current state of the area and its ongoing developments It constitutes the proceedings of the conference on Stochastic Analysis and Applications held at the University of Oxford and the Oxford Man Institute during 23 27 September 2013 The conference honored the 60th birthday of Professor Terry Lyons FLSW FRSE FRS Wallis Professor of Mathematics University of Oxford Terry Lyons is one of the leaders in the field of stochastic analysis His introduction of the notion of rough paths has revolutionized the field both in theory and in practice Stochastic Analysis is the branch of mathematics that deals with the analysis of dynamical systems affected by noise It emerged as a core area of mathematics in the late 20th century and has subsequently developed into an important theory with a wide range of powerful and novel tools and with impressive applications within and beyond mathematics Many systems are profoundly affected by stochastic fluctuations and it is not surprising that the array of applications of Stochastic Analysis is vast and touches on many aspects of life The present volume is intended for researchers and Ph D students in stochastic analysis and its applications stochastic optimization and financial mathematics as well as financial engineers and quantitative analysts

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