SYMBOLIC COMPUTATION, NUMBER THEORY, SPECIAL FUNCTIONS, PHYSICS AND COMBINATORICS

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Symbolic Computation Number Theory Special Functions Physics And Combinatorics

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Symbolic Computation Number Theory Special Functions Physics And Combinatorics:

Symbolic Computation, Number Theory, Special Functions, Physics and Combinatorics Frank G. Garvan,Mourad E.H. Ismail,2013-12-01 These are the proceedings of the conference Symbolic Computation Number Theory Special Functions Physics and Combinatorics held at the Department of Mathematics University of Florida Gainesville from November 11 to 13 1999 The main emphasis of the conference was Com puter Algebra i e symbolic computation and how it related to the fields of Number Theory Special Functions Physics and Combinatorics A subject that is common to all of these fields is q series We brought together those who do symbolic computation with q series and those who need q series in cluding workers in Physics and Combinatorics The goal of the conference was to inform mathematicians and physicists who use q series of the latest developments in the field of q series and especially how symbolic computa tion has aided these developments Over 60 people were invited to participate in the conference We ended up having 45 participants at the conference including six one hour plenary speakers and 28 half hour speakers There were talks in all the areas we were hoping for There were three software demonstrations   From Operator Theory to Orthogonal Polynomials, Combinatorics, and Number Theory Fritz Gesztesy,Andrei Martinez-Finkelshtein,2021-11-11 The main topics of this volume dedicated to Lance Littlejohn are operator and spectral theory orthogonal polynomials combinatorics number theory and the various interplays of these subjects Although the event originally scheduled as the Baylor Analysis Fest had to be postponed due to the pandemic scholars from around the globe have contributed research in a broad range of mathematical fields The collection will be of interest to both graduate students and professional mathematicians Contributors are G E Andrews B M Brown D Damanik M L Dawsey W D Evans J Fillman D Frymark A G Garc a L G Garza F Gesztesy D G mez Ullate Y Grandati F A Gr nbaum S Guo M Hunziker A Iserles T F Jones K Kirsten Y Lee C Liaw F Marcell n C Markett A Martinez Finkelshtein D McCarthy R Milson D Mitrea I Mitrea M Mitrea G Novello D Ong K Ono J L Padgett M M M Pang T Poe A Sri Ranga K Schiefermayr Q Sheng B Simanek J Stanfill L Vel zquez M Webb J Wilkening I G Wood M Zinchenko   **Theory and Applications of Special Functions for Scientists and Engineers** Xiao-Jun Yang,2022-01-14 This book provides the knowledge of the newly established supertrigonometric and superhyperbolic functions with the special functions such as Mittag Leffler Wiman Prabhakar Miller Ross Rabotnov Lorenzo Hartley Sonine Wright and Kohlrausch Williams Watts functions Gauss hypergeometric series and Clausen hypergeometric series The special functions can be considered to represent a great many of the real world phenomena in mathematical physics engineering and other applied sciences The audience benefits of new and original information and references in the areas of the special functions applied to model the complex problems with the power law behaviors The results are important and interesting for scientists and engineers to represent the complex phenomena arising in applied sciences therefore graduate students and researchers in mathematics physics and engineering might find this book appealing   *The Web of Modularity: Arithmetic of the Coefficients of Modular*

Forms and q-series Ken Ono,2004 Chapter 1   <u>Advances in Combinatorics</u> Ilias S. Kotsireas,Eugene V. Zima,2013-08-04 This volume as Andrew M Odlzyko writes in the foreword commemorates and celebrates the life and achievements of an extraordinary person Originally conceived as an 80th birthday tribute to Herbert Wilf the well known combinatorialist the book has evolved beyond the proceeds of the W80 tribute Professor Wilf was an award winning teacher who was supportive of women mathematicians and who had an unusually high proportion of women among his PhD candidates He was Editor in chief of the American Mathematical Monthly and a founder of both the Journal of Algorithms and of the Electronic Journal of Combinatorics But he was first a researcher driven by his desire to know and explain the inner workings of the mathematical world The book collects high quality refereed research contributions by some of Professor Wilf s colleagues students and collaborators Many of the papers presented here were featured in the Third Waterloo Workshop on Computer Algebra WWCA 2011 W80 held May 26 29 2011 at Wilfrid Laurier University Waterloo Canada Others were included because of their relationship to his important work in combinatorics All are presented as a tribute to Herb Wilf s contributions to mathematics and mathematical life   **Computer Algebra in Quantum Field Theory** Carsten Schneider,Johannes Blümlein,2013-10-05 The book focuses on advanced computer algebra methods and special functions that have striking applications in the context of quantum field theory It presents the state of the art and new methods for infinite multiple sums multiple integrals in particular Feynman integrals difference and differential equations in the format of survey articles The presented techniques emerge from interdisciplinary fields mathematics computer science and theoretical physics the articles are written by mathematicians and physicists with the goal that both groups can learn from the other field including most recent developments Besides that the collection of articles also serves as an up to date handbook of available algorithms software that are commonly used or might be useful in the fields of mathematics physics or other sciences   <u>The Mathematica GuideBook for Symbolics</u> Michael Trott,2007-04-03 Mathematica is today s most advanced technical computing system It features a rich programming environment two and three dimensional graphics capabilities and hundreds of sophisticated powerful programming and mathematical functions using state of the art algorithms Combined with a user friendly interface and a complete mathematical typesetting system Mathematica offers an intuitive easy to handle environment of great power and utility The Mathematica GuideBook for Symbolics code and text fully tailored for Mathematica 5 1 deals with Mathematica s symbolic mathematical capabilities Structural and mathematical operations on single and systems of polynomials are fundamental to many symbolic calculations and they are covered in considerable detail The solution of equations and differential equations as well as the classical calculus operations differentiation integration summation series expansion limits are exhaustively treated Generalized functions and their uses are discussed In addition this volume discusses and employs the classical orthogonal polynomials and special functions of mathematical physics To demonstrate the symbolic mathematics power a large variety of problems from mathematics and phyics are discussed   **Ramanujan's**

Theta Functions Shaun Cooper,2017-06-12 Theta functions were studied extensively by Ramanujan This book provides a systematic development of Ramanujan s results and extends them to a general theory The author s treatment of the subject is comprehensive providing a detailed study of theta functions and modular forms for levels up to 12 Aimed at advanced undergraduates graduate students and researchers the organization user friendly presentation and rich source of examples lends this book to serve as a useful reference a pedagogical tool and a stimulus for further research Topics especially those discussed in the second half of the book have been the subject of much recent research many of which are appearing in book form for the first time Further results are summarized in the numerous exercises at the end of each chapter   *An Introduction to Basic Fourier Series* Sergei Suslov,2013-03-09 It was with the publication of Norbert Wiener s book The Fourier In tegral and Certain of Its Applications 165 in 1933 by Cambridge Univer sity Press that the mathematical community came to realize that there is an alternative approach to the study of c1assical Fourier Analysis namely through the theory of c1assical orthogonal polynomials Little would he know at that time that this little idea of his would help usher in a new and exiting branch of c1assical analysis called q Fourier Analysis Attempts at finding q analogs of Fourier and other related transforms were made by other authors but it took the mathematical insight and instincts of none other then Richard Askey the grand master of Special Functions and Orthogonal Polynomials to see the natural connection between orthogonal polynomials and a systematic theory of q Fourier Analysis The paper that he wrote in 1993 with N M Atakishiyev and S K Suslov entitled An Analog of the Fourier Transform for a q Harmonic Oscillator 13 was probably the first significant publication in this area The Poisson k rnel for the contin uous q Hermite polynomials plays a role of the q exponential function for the analog of the Fourier integral under considerationj see also 14 for an extension of the q Fourier transform to the general case of Askey Wilson polynomials Another important ingredient of the q Fourier Analysis that deserves thorough investigation is the theory of q Fourier series   Ramanujan's Lost Notebook George E. Andrews,Bruce C. Berndt,2013-06-04 In the spring of 1976 George Andrews of Pennsylvania State University visited the library at Trinity College Cambridge to examine the papers of the late G N Watson Among these papers Andrews discovered a sheaf of 138 pages in the handwriting of Srinivasa Ramanujan This manuscript was soon designated Ramanujan s lost notebook Its discovery has frequently been deemed the mathematical equivalent of finding Beethoven s tenth symphony This volume is the fourth of five volumes that the authors plan to write on Ramanujan s lost notebook In contrast to the first three books on Ramanujan s Lost Notebook the fourth book does not focus on q series Most of the entries examined in this volume fall under the purviews of number theory and classical analysis Several incomplete manuscripts of Ramanujan published by Narosa with the lost notebook are discussed Three of the partial manuscripts are on diophantine approximation and others are in classical Fourier analysis and prime number theory Most of the entries in number theory fall under the umbrella of classical analytic number theory Perhaps the most intriguing entries are connected with the classical unsolved circle and divisor

problems Review from the second volume Fans of Ramanujan s mathematics are sure to be delighted by this book While some of the content is taken directly from published papers most chapters contain new material and some previously published proofs have been improved Many entries are just begging for further study and will undoubtedly be inspiring research for decades to come The next installment in this series is eagerly awaited MathSciNet Review from the first volume Andrews and Berndt are to be congratulated on the job they are doing This is the first step on the way to an understanding of the work of the genius Ramanujan It should act as an inspiration to future generations of mathematicians to tackle a job that will never be complete Gazette of the Australian Mathematical Society **Non-commutative and Non-associative Algebra and Analysis Structures** Sergei Silvestrov,Anatoliy Malyarenko,2023-09-25 The goal of the 2019 conference on Stochastic Processes and Algebraic Structures held in SPAS2019 V ster s Sweden from September 30th to October 2nd 2019 was to showcase the frontiers of research in several important topics of mathematics mathematical statistics and its applications The conference has been organized along the following tracks 1 Stochastic processes and modern statistical methods in theory and practice 2 Engineering Mathematics 3 Algebraic Structures and applications This book highlights the latest advances in algebraic structures and applications focused on mathematical notions methods structures concepts problems algorithms and computational methods for the natural sciences engineering and modern technology In particular the book features mathematical methods and models from non commutative and non associative algebras and rings associated to generalizations of differential calculus quantum deformations of algebras Lie algebras Lie superalgebras color Lie algebras Hom algebras and their n ary generalizations semi groups and group algebras non commutative and non associative algebras and computational algebra interplay with q special functions and q analysis topology dynamical systems representation theory operator theory and functional analysis applications of algebraic structures in coding theory information analysis geometry and probability theory The book gathers selected high quality contributed chapters from several large research communities working on modern algebraic structures and their applications The chapters cover both theory and applications and are illustrated with a wealth of ideas theorems notions proofs examples open problems and results on the interplay of algebraic structures with other parts of Mathematics The applications help readers grasp the material and encourage them to develop new mathematical methods and concepts in their future research Presenting new methods and results reviews of cutting edge research open problems and directions for future research will serve as a source of inspiration for a broad range of researchers and students The Mathematica GuideBook for Programming Michael Trott,2013-12-21 Mathematica is today s most advanced technical computing system It features a rich programming environment two and three dimensional graphics capabilities and hundreds of sophisticated powerful programming and mathematical functions using state of the art algorithms Combined with a user friendly interface and a complete mathematical typesetting system Mathematica offers an intuitive easy to handle environment of great power and utility The

Mathematica Guidebook for Programming provides a comprehensive step by step development of Mathematica programming capabilities and contains an enormous collection of examples and worked exercises It guides the reader to become fluent in the structure of Mathematica expressions expression evaluation pure and named functions and in procedural rule based and functional programming constructs Each Mathematica function is discussed in detail explained in numerous examples The programs for this book are available to download at the link below http extras springer com Unique Features Step by step presentation of Mathematica functions assuming no prior Mathematica programming experience Clear organization complete topic coverage and an accessible writing style for both novices and experts Detailed discussion of procedural rule based and functional programming Hundreds of worked examples illustrations programs and fully worked self study exercises for understanding concepts and learning how to solve real life problems Website for book with additional materials http www MathematicaGuideBooks org Michael Trott is a symbolic computation and computer graphics expert He holds a Ph D in theoretical physics and joined the R D team at Wolfram Research in 1994 the creators of Mathematica Since 1998 he has been leading development of the Wolfram Functions Site http functions wolfram com which currently features more that 80 000 formulas and identities and thousands of visualizations   Elliptic Integrals, Elliptic Functions and Modular Forms in Quantum Field Theory Johannes Blümlein,Carsten Schneider,Peter Paule,2019-01-30 This book includes review articles in the field of elliptic integrals elliptic functions and modular forms intending to foster the discussion between theoretical physicists working on higher loop calculations and mathematicians working in the field of modular forms and functions and analytic solutions of higher order differential and difference equations   *Invitation To Q-series, An: From Jacobi's Triple Product Identity To Ramanujan's "Most Beautiful Identity"* Hei-chi Chan,2011-04-04 The aim of these lecture notes is to provide a self contained exposition of several fascinating formulas discovered by Srinivasa Ramanujan Two central results in these notes are 1 the evaluation of the Rogers Ramanujan continued fraction a result that convinced G H Hardy that Ramanujan was a mathematician of the highest class and 2 what G H Hardy called Ramanujan s Most Beautiful Identity This book covers a range of related results such as several proofs of the famous Rogers Ramanujan identities and a detailed account of Ramanujan s congruences It also covers a range of techniques in q series   2017 MATRIX Annals Jan de Gier,Cheryl E. Praeger,Terence Tao,2019-03-13 MATRIX is Australia s international and residential mathematical research institute It facilitates new collaborations and mathematical advances through intensive residential research programs each 1 4 weeks in duration This book is a scientific record of the eight programs held at MATRIX in its second year 2017 Hypergeometric Motives and Calabi Yau Differential Equations Computational Inverse Problems Integrability in Low Dimensional Quantum Systems Elliptic Partial Differential Equations of Second Order Celebrating 40 Years of Gilbarg and Trudinger s Book Combinatorics Statistical Mechanics and Conformal Field Theory Mathematics of Risk Tutte Centenary Retreat Geometric R Matrices from Geometry to Probability The articles are grouped into peer reviewed contributions and other contributions The

peer reviewed articles present original results or reviews on a topic related to the MATRIX program the remaining contributions are predominantly lecture notes or short articles based on talks or activities at MATRIX **My Mathematical Universe: People, Personalities, And The Profession** Krishnaswami Alladi,2022-11-15 This is an autobiography and an exposition on the contributions and personalities of many of the leading researchers in mathematics and physics with whom Dr Krishna Alladi Professor of Mathematics at the University of Florida has had personal interaction with for over six decades Discussions of various aspects of the physics and mathematics academic professions are included Part I begins with the author s unusual and frequent introductions as a young boy to scientific luminaries like Nobel Laureates Niels Bohr Murray Gell Mann and Richard Feynman in the company of his father the scientist Alladi Ramakrishnan Also in Part I is an exciting account of how the author started his research investigations in number theory as an undergraduate and how contact and collaboration with the great Paul Erd s as a student influenced him in his career In depth views of the Institute for Advanced Study Princeton and several major American Universities are given and fascinating descriptions of the work and personalities of some Field Medalists and eminent mathematicians are provided Part II deals with the author s tenure at the University of Florida where he initiated several programs as Mathematics Chair for a decade and how he has served the profession in various capacities most notably as Chair of the SASTRA Ramanujan Prize Committee and Editor in Chief of The Ramanujan Journal The book would appeal to academicians and the general public since the author has blended academic and scientific discussions at a non technical level with descriptions of destinations in his international travels for work and pleasure The reader is invited to dig as deep as desired and is guaranteed to be treated to whimsical stories and personal peeks at some of the great luminaries of the twentieth and twenty first centuries Mathematical Constants Steven R. Finch,2003-08-18 Steven Finch provides 136 essays each devoted to a mathematical constant or a class of constants from the well known to the highly exotic This book is helpful both to readers seeking information about a specific constant and to readers who desire a panoramic view of all constants coming from a particular field for example combinatorial enumeration or geometric optimization Unsolved problems appear virtually everywhere as well This work represents an outstanding scholarly attempt to bring together all significant mathematical constants in one place **Infinite Families of Exact Sums of Squares Formulas, Jacobi Elliptic Functions, Continued Fractions, and Schur Functions** Stephen C. Milne,2013-11-27 The problem of representing an integer as a sum of squares of integers is one of the oldest and most significant in mathematics It goes back at least 2000 years to Diophantus and continues more recently with the works of Fermat Euler Lagrange Jacobi Glaisher Ramanujan Hardy Mordell Andrews and others Jacobi s elliptic function approach dates from his epic Fundamenta Nova of 1829 Here the author employs his combinatorial elliptic function methods to derive many infinite families of explicit exact formulas involving either squares or triangular numbers two of which generalize Jacobi s 1829 4 and 8 squares identities to $4n^2$ or $4n(n+1)$ squares respectively without using cusp forms such as those of Glaisher or Ramanujan for 16 and

24 squares These results depend upon new expansions for powers of various products of classical theta functions This is the first time that infinite families of non trivial exact explicit formulas for sums of squares have been found The author derives his formulas by utilizing combinatorics to combine a variety of methods and observations from the theory of Jacobi elliptic functions continued fractions Hankel or Turanian determinants Lie algebras Schur functions and multiple basic hypergeometric series related to the classical groups His results in Theorem 5 19 generalize to separate infinite families each of the 21 of Jacobi s explicitly stated degree 2 4 6 8 Lambert series expansions of classical theta functions in sections 40 42 of the Fundamental Nova The author also uses a special case of his methods to give a derivation proof of the two Kac and Wakimoto 1994 conjectured identities concerning representations of a positive integer by sums of 4n2 or 4n n 1 triangular numbers respectively These conjectures arose in the study of Lie algebras and have also recently been proved by Zagierusing modular forms George Andrews says in a preface of this book This impressive work will undoubtedly spur others both in elliptic functions and in modular forms to build on these wonderful discoveries Audience This research monograph on sums of squares is distinguished by its diversity of methods and extensive bibliography It contains both detailed proofs and numerous explicit examples of the theory This readable work will appeal to both students and researchers in number theory combinatorics special functions classical analysis approximation theory and mathematical physics **Special Functions, q-Series and Related Topics** Mourad Ismail,David R. Masson,Mizan Rahman,1997 This book contains contributions from the proceedings at The Fields Institute workshop on Special Functions q Series and Related Topics that was held in June 1995 The articles cover areas from quantum groups and their representations multivariate special functions q series and symbolic algebra techniques as well as the traditional areas of single variable special functions The book contains both pure and applied topics and reflects recent trends of research in the various areas of special functions **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

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