

# Lattice Path Combinatorics with Statistical Applications; Mathematical Expositions 23

T. V. NARAYANA



# Lattice Path Combinatorics With Statistical Applications

**Gopal Mohanty**



## **Lattice Path Combinatorics With Statistical Applications:**

Lattice Path Combinatorics with Statistical Applications; Mathematical Expositions 23 T. V. Narayana, 1979-12 Lattice path combinatorics has developed greatly as a branch of probability studies recently and the need for new books on the subject is obvious It treats several recent results and it offers a powerful new tool for studying many problems in mathematical statistics

**Lattice Path Combinatorics and Applications** George E. Andrews, Christian Krattenthaler, Alan Krinik, 2019-03-02 The most recent methods in various branches of lattice path and enumerative combinatorics along with relevant applications are nicely grouped together and represented in this research contributed volume Contributions to this edited volume will be mainly research articles however it will also include several captivating expository articles along with pictures on the life and mathematical work of leading researchers in lattice path combinatorics and beyond There will be four or five expository articles in memory of Shreeram Shankar Abhyankar and Philippe Flajolet and honoring George Andrews and Lajos Takacs There may be another brief article in memory of Professors Jagdish Narayan Srivastava and Joti Lal Jain New research results include the kernel method developed by Flajolet and others for counting different classes of lattice paths continues to produce new results in counting lattice paths The recent investigation of Fishburn numbers has led to interesting counting interpretations and a family of fascinating congruences Formulas for new methods to obtain the number of  $F_q$  rational points of Schubert varieties in Grassmannians continues to have research interest and will be presented here Topics to be included are far reaching and will include lattice path enumeration tilings bijections between paths and other combinatoric structures non intersecting lattice paths varieties Young tableaux partitions enumerative combinatorics discrete distributions applications to queueing theory and other continuous time models graph theory and applications Many leading mathematicians who spoke at the conference from which this volume derives are expected to send contributions including This volume also presents the stimulating ideas of some exciting newcomers to the Lattice Path Combinatorics Conference series The 8th Conference on Lattice Path Combinatorics and Applications provided opportunities for new collaborations some of the products of these collaborations will also appear in this book This book will have interest for researchers in lattice path combinatorics and enumerative combinatorics This will include subsets of researchers in mathematics statistics operations research and computer science The applications of the material covered in this edited volume extends beyond the primary audience to scholars interested queueing theory graph theory tiling partitions distributions etc An attractive bonus within our book is the collection of special articles describing the top recent researchers in this area of study and documenting the interesting history of who when and how these beautiful combinatorial results were originally discovered

Lattice Path Combinatorics, with Statistical Applications Tadeipalli Venkata Narayana, 1979

*Lattice Path Counting and Applications* Gopal Mohanty, 2014-07-10 Probability and Mathematical Statistics A Series of Monographs and Textbooks Lattice Path Counting and Applications focuses on the principles methodologies and approaches

involved in lattice path counting and applications including vector representation random walks and rank order statistics The book first underscores the simple and general boundaries of path counting Topics include types of diagonal steps and a correspondence paths within general boundaries higher dimensional paths vector representation compositions and domination recurrence and generating function method and reflection principle The text then examines invariance and fluctuation and random walk and rank order statistics Discussions focus on random walks rank order statistics Chung Feller theorems and Sparre Andersen s equivalence The manuscript takes a look at convolution identities and inverse relations and discrete distributions queues trees and search codes as well as discrete distributions and a correlated random walk trees and search codes convolution identities and orthogonal relations and inversion formulas The text is a valuable reference for mathematicians and researchers interested in in lattice path counting and applications

*Lattice Path Combinatorics and Special Counting Sequences* Chunwei Song, 2024-09-17 This book endeavors to deepen our understanding of lattice path combinatorics explore key types of special sequences elucidate their interconnections and concurrently champion the author s interpretation of the combinatorial spirit The author intends to give an up to date introduction to the theory of lattice path combinatorics its relation to those special counting sequences important in modern combinatorial studies such as the Catalan Schr der Motzkin Delannoy numbers and their generalized versions Brief discussions of applications of lattice path combinatorics to symmetric functions and connections to the theory of tableaux are also included Meanwhile the author also presents an interpretation of the combinatorial spirit i e counting without counting bijective proofs and understanding combinatorics from combinatorial structures internally and more hoping to shape the development of contemporary combinatorics

*Lattice Path Combinatorics and Special Counting Sequences From an Enumerative Perspective* will appeal to graduate students and advanced undergraduates studying combinatorics discrete mathematics or computer science

**Counting Lattice Paths Using Fourier Methods** Shaun Ault, Charles Kicey, 2019-08-30 This monograph introduces a novel and effective approach to counting lattice paths by using the discrete Fourier transform DFT as a type of periodic generating function Utilizing a previously unexplored connection between combinatorics and Fourier analysis this method will allow readers to move to higher dimensional lattice path problems with ease The technique is carefully developed in the first three chapters using the algebraic properties of the DFT moving from one dimensional problems to higher dimensions In the following chapter the discussion turns to geometric properties of the DFT in order to study the corridor state space Each chapter poses open ended questions and exercises to prompt further practice and future research Two appendices are also provided which cover complex variables and non rectangular lattices thus ensuring the text will be self contained and serve as a valued reference

*Counting Lattice Paths Using Fourier Methods* is ideal for upper undergraduates and graduate students studying combinatorics or other areas of mathematics as well as computer science or physics Instructors will also find this a valuable resource for use in their seminars Readers should have a firm understanding of calculus including

integration sequences and series as well as a familiarity with proofs and elementary linear algebra

**Advances in Combinatorial Methods and Applications to Probability and Statistics** N. Balakrishnan, 2012-12-06 Sri Gopal Mohanty has made pioneering contributions to lattice path counting and its applications to probability and statistics This is clearly evident from his lifetime publications list and the numerous citations his publications have received over the past three decades My association with him began in 1982 when I came to McMaster University Since then I have been associated with him on many different issues at professional as well as cultural levels I have benefited greatly from him on both these grounds I have enjoyed very much being his colleague in the statistics group here at McMaster University and also as his friend While I admire him for his honesty sincerity and dedication I appreciate very much his kindness modesty and broad mindedness Aside from our common interest in mathematics and statistics we both have great love for Indian classical music and dance We have spent numerous many different subjects associated with the Indian music and hours discussing dance I still remember fondly the long drive to Amherst Massachusetts I had a few years ago with him and his wife Shantimayee and all the hearty discussions we had during that journey Combinatorics and applications of combinatorial methods in probability and statistics has become a very active and fertile area of research in the recent past

**Catalan Numbers** Richard P. Stanley, 2015-03-30 Catalan numbers are probably the most ubiquitous sequence of numbers in mathematics This book gives for the first time a comprehensive collection of their properties and applications to combinatorics algebra analysis number theory probability theory geometry topology and other areas Following an introduction to the basic properties of Catalan numbers the book presents 214 different kinds of objects counted by them in the form of exercises with solutions The reader can try solving the exercises or simply browse through them Some 68 additional exercises with prescribed difficulty levels present various properties of Catalan numbers and related numbers such as Fuss Catalan numbers Motzkin numbers Schröder numbers Narayana numbers super Catalan numbers  $q$  Catalan numbers and  $q$   $t$  Catalan numbers The book ends with a history of Catalan numbers by Igor Pak and a glossary of key terms Whether your interest in mathematics is recreation or research you will find plenty of fascinating and stimulating facts here

**Enumerative Combinatorics: Volume 2** Richard P. Stanley, 2001-06-04 An introduction suitable for beginning graduate students showing connections to other areas of mathematics

Combinatorial Algorithms Cristina Bazgan, Henning Fernau, 2022-05-29 This book constitutes the refereed proceedings of the 33rd International Workshop on Combinatorial Algorithms IWOCA 2022 which took place as a hybrid event in Trier Germany during June 7-9 2022 The 35 papers presented in these proceedings were carefully reviewed and selected from 86 submissions They deal with diverse topics related to combinatorial algorithms such as algorithms and data structures algorithmic and combinatorial aspects of cryptography and information security algorithmic game theory and complexity of games approximation algorithms complexity theory combinatorics and graph theory combinatorial generation enumeration and counting combinatorial optimization combinatorics of words computational biology computational geometry

decompositions and combinatorial designs distributed and network algorithms experimental combinatorics fine grained complexity graph algorithms and modelling with graphs graph drawing and graph labelling network theory and temporal graphs quantum computing and algorithms for quantum computers online algorithms parameterized and exact algorithms probabilistic and randomized algorithms and streaming algorithms

**An Invitation to Analytic Combinatorics** Stephen Melczer, 2020-12-22 This book uses new mathematical tools to examine broad computability and complexity questions in enumerative combinatorics with applications to other areas of mathematics theoretical computer science and physics A focus on effective algorithms leads to the development of computer algebra software of use to researchers in these domains After a survey of current results and open problems on decidability in enumerative combinatorics the text shows how the cutting edge of this research is the new domain of Analytic Combinatorics in Several Variables ACSV The remaining chapters of the text alternate between a pedagogical development of the theory applications including the resolution by this author of conjectures in lattice path enumeration which resisted several other approaches and the development of algorithms The final chapters in the text show through examples and general theory how results from stratified Morse theory can help refine some of these computability questions Complementing the written presentation are over 50 worksheets for the SageMath and Maple computer algebra systems working through examples in the text

**Combinatorics** Nicholas Loehr, 2017-08-10 Combinatorics Second Edition is a well rounded general introduction to the subjects of enumerative bijective and algebraic combinatorics The textbook emphasizes bijective proofs which provide elegant solutions to counting problems by setting up one to one correspondences between two sets of combinatorial objects The author has written the textbook to be accessible to readers without any prior background in abstract algebra or combinatorics Part I of the second edition develops an array of mathematical tools to solve counting problems basic counting rules recursions inclusion exclusion techniques generating functions bijective proofs and linear algebraic methods These tools are used to analyze combinatorial structures such as words permutations subsets functions graphs trees lattice paths and much more Part II cover topics in algebraic combinatorics including group actions permutation statistics symmetric functions and tableau combinatorics This edition provides greater coverage of the use of ordinary and exponential generating functions as a problem solving tool Along with two new chapters several new sections and improved exposition throughout the textbook is brimming with many examples and exercises of various levels of difficulty

**Advances on Methodological and Applied Aspects of Probability and Statistics** N. Balakrishnan, 2004-03-01 This is one of two volumes that sets forth invited papers presented at the International Indian Statistical Association Conference This volume emphasizes advancements in methodology and applications of probability and statistics The chapters representing the ideas of vanguard researchers on the topic present several different subspecialties including applied probability models and applications estimation and testing robust inference regression and design and sample size methodology The text also fully describes the applications of these new ideas to

industry ecology biology health economics and management Researchers and graduate students in mathematical analysis as well as probability and statistics professionals in industry will learn much from this volume Combinatorics '90 A. Barlotti, A. Bichara, P.V. Ceccherini, G. Tallini, 1992-08-17 This volume forms a valuable source of information on recent developments in research in combinatorics with special regard to the geometric point of view Topics covered include finite geometries arcs caps special varieties in a Galois space generalized quadrangles Benz planes foundation of geometry partial geometries Buekenhout geometries transitive permutation sets flat transitive geometries design theory finite groups near rings and semifields MV algebras coding theory cryptography and graph theory in its geometric and design aspects **The Statistical Mechanics of Interacting Walks, Polygons, Animals and Vesicles** E. J. Janse Van Rensburg, 2015 This monograph examines the self avoiding walk a classical model in statistical mechanics probability theory and mathematical physics paying close attention to recent developments in the field such as models in the hexagonal lattice and the Monte Carlo methods Canadian Mathematical Bulletin , 1980-09 **Financial Engineering and Computation** Yuh-Dauh Lyuu, 2002 A comprehensive text and reference first published in 2002 on the theory of financial engineering with numerous algorithms for pricing risk management and portfolio management **Young Tableaux in Combinatorics, Invariant Theory, and Algebra** Joseph P.S. Kung, 2014-05-12 Young Tableaux in Combinatorics Invariant Theory and Algebra An Anthology of Recent Work is an anthology of papers on Young tableaux and their applications in combinatorics invariant theory and algebra Topics covered include reverse plane partitions and tableau hook numbers some partitions associated with a partially ordered set frames and Baxter sequences and Young diagrams and ideals of Pfaffians Comprised of 16 chapters this book begins by describing a probabilistic proof of a formula for the number  $f$  of standard Young tableaux of a given shape  $f$  The reader is then introduced to the generating function of R P Stanley for reverse plane partitions on a tableau shape an analog of Schensted's algorithm relating permutations and triples consisting of two shifted Young tableaux and a set and a variational problem for random Young tableaux Subsequent chapters deal with certain aspects of Schensted's construction and the derivation of the Littlewood Richardson rule for the multiplication of Schur functions using purely combinatorial methods monotonicity and unimodality of the pattern inventory and skew symmetric invariant theory This volume will be helpful to students and practitioners of algebra **Proceedings of the ... Conference on the Design of Experiments in Army Research, Development and Testing** , 1981 Enumerative Combinatorics: Volume 2 Richard Stanley, 2023-08-17 Richard Stanley's two volume basic introduction to enumerative combinatorics has become the standard guide to the topic for students and experts alike This thoroughly revised second edition of volume two covers the composition of generating functions in particular the exponential formula and the Lagrange inversion formula labelled and unlabelled trees algebraic  $D$  finite and noncommutative generating functions and symmetric functions The chapter on symmetric functions provides the only available treatment of this subject suitable for an introductory graduate course and focusing on

combinatorics especially the Robinson Schensted Knuth algorithm An appendix by Sergey Fomin covers some deeper aspects of symmetric functions including jeu de taquin and the Littlewood Richardson rule The exercises in the book play a vital role in developing the material and this second edition features over 400 exercises including 159 new exercises on symmetric functions all with solutions or references to solutions



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