Michael Drmota
Robert F. Tichy

Sequences, Discrepancies and Applications

Sequences Discrepancies And Applications

Vojislav Maric

Sequences Discrepancies And Applications:

    Sequences, Discrepancies and Applications Michael Drmota,Robert F. Tichy,2006-11-14 The main purpose of this book is to give an overview of the developments during the last 20 years in the theory of uniformly distributed sequences The authors focus on various aspects such as special sequences metric theory geometric concepts of discrepancy irregularities of distribution continuous uniform distribution and uniform distribution in discrete spaces Specific applications are presented in detail numerical integration spherical designs random number generation and mathematical finance Furthermore over 1000 references are collected and discussed While written in the style of a research monograph the book is readable with basic knowledge in analysis number theory and measure theory   **Digital Nets and Sequences** Josef Dick,Friedrich Pillichshammer,2010-09-09 Indispensable for students invaluable for researchers this comprehensive treatment of contemporary quasi Monte Carlo methods digital nets and sequences and discrepancy theory starts from scratch with detailed explanations of the basic concepts and then advances to current methods used in research As deterministic versions of the Monte Carlo method quasi Monte Carlo rules have increased in popularity with many fruitful applications in mathematical practice These rules require nodes with good uniform distribution properties and digital nets and sequences in the sense of Niederreiter are known to be excellent candidates Besides the classical theory the book contains chapters on reproducing kernel Hilbert spaces and weighted integration duality theory for digital nets polynomial lattice rules the newest constructions by Niederreiter and Xing and many more The authors present an accessible introduction to the subject based mainly on material taught in undergraduate courses with numerous examples exercises and illustrations   **The Discrepancy Method** Bernard Chazelle,2000 The discrepancy method is the glue that binds randomness and complexity It is the bridge between randomized computation and discrepancy theory the area of mathematics concerned with irregularities in distributions The discrepancy method has played a major role in complexity theory in particular it has caused a mini revolution of sorts in computational geometry This book tells the story of the discrepancy method in a few short independent vignettes It is a varied tale which includes such topics as communication complexity pseudo randomness rapidly mixing Markov chains points on the sphere and modular forms derandomization convex hulls Voronoi diagrams linear programming and extensions geometric sampling VC dimension theory minimum spanning trees linear circuit complexity and multidimensional searching The mathematical treatment is thorough and self contained In particular background material in discrepancy theory is supplied as needed Thus the book should appeal to students and researchers in computer science operations research pure and applied mathematics and engineering   <u>Applied Algebra and Number Theory</u> Gerhard Larcher,Friedrich Pillichshammer,Arne Winterhof,2014-12-11 This book contains survey articles on modern topics related to the work of Harald Niederreiter written by close colleagues and leading experts   **Arithmetic of Finite Fields** Sylvain Duquesne,Svetla Petkova-Nikova,2017-03-08 This book constitutes the thoroughly refereed post workshop proceedings of the

6th International Workshop on the Arithmetic of Finite Field WAIFI 2016 held in Ghent Belgium in July 2016 The 14 revised full papers and 3 invited talks presented were carefully reviewed and selected from 38 submissions The papers are organized in topical sections on invited talks elliptic curves applications irreducible polynomials applications to cryptography Boolean functions cryptography cryptography and Boolean functions   Moduli of Supersingular Abelian Varieties Ke-Zheng Li,Frans Oort,1998-01-19 Abelian varieties can be classified via their moduli In positive characteristic the structure of the p torsion structure is an additional useful tool For that structure supersingular abelian varieties can be considered the most special ones They provide a starting point for the fine description of various structures For low dimensions the moduli of supersingular abelian varieties is by now well understood In this book we provide a description of the supersingular locus in all dimensions in particular we compute the dimension of it it turns out to be equal to g g 4 and we express the number of components as a class number thus completing a long historical line where special cases were studied and general results were conjectured Deuring Hasse Igusa Oda Oort Katsura Oort   Cooperative Decision Making in Common Pool Situations Holger I. Meinhardt,2012-12-06 The monograph gives a theoretical explanation of observed cooperative behavior in common pool situations The incentives for cooperative decision making are investigated by means of a cooperative game theoretical framework In a first step core existence results are worked out Whereas general core existence results provide us with an answer for mutual cooperation nothing can be said how strong these incentives and how stable these cooperative agreements are To clarify these questions the convexity property for common pool TU games in scrutinized in a second step It is proved that the convexity property holds for a large subclass of symmetrical as well as asymmetrical cooperative common pool games Core existence and the convexity results provide us with a theoretical explanation to bridge the gap between the observation in field studies for cooperation and the noncooperative prediction that the common pool resource will be overused and perhaps endangered   Quilts: Central Extensions, Braid Actions, and Finite Groups Timothy M. Hsu,2000-05-06 Quilts are 2 complexes used to analyze actions and subgroups of the 3 string braid group and similar groups This monograph establishes the fundamentals of quilts and discusses connections with central extensions braid actions and finite groups Most results have not previously appeared in a widely available form and many results appear in print for the first time This monograph is accessible to graduate students as a substantial amount of background material is included The methods and results may be relevant to researchers interested in infinite groups moonshine central extensions triangle groups dessins d enfants and monodromy actions of braid groups   **Seminaire de Probabilites XXXIV** J. Azema,M. Emery,M. Ledoux,M. Yor,2007-05-06 This volume contains 19 contributions to various subjects in the theory of commutative and non commutative stochastic processes It also provides a 145 page graduate course on branching and interacting particle systems with applications to non linear filtering by P del Moral and L Miclo   Regular Variation and Differential Equations Vojislav Maric,2000-03-27 This book constitutes the refereed proceedings of the Third Pacific Asia Conference on Knowledge

Discovery and Data Mining PAKDD 99 held in Beijing China in April 1999 The 29 revised full papers presented together with 37 short papers were carefully selected from a total of 158 submissions The book is divided into sections on emerging KDD technology association rules feature selection and generation mining in semi unstructured data interestingness surprisingness and exceptions rough sets fuzzy logic and neural networks induction classification and clustering visualization causal models and graph based methods agent based and distributed data mining and advanced topics and new methodologies **Power Sums, Gorenstein Algebras, and Determinantal Loci** Anthony Iarrobino,Vassil Kanev,1999-12-15 This book treats the theory of representations of homogeneous polynomials as sums of powers of linear forms The first two chapters are introductory and focus on binary forms and Waring s problem Then the author s recent work is presented mainly on the representation of forms in three or more variables as sums of powers of relatively few linear forms The methods used are drawn from seemingly unrelated areas of commutative algebra and algebraic geometry including the theories of determinantal varieties of classifying spaces of Gorenstein Artin algebras and of Hilbert schemes of zero dimensional subschemes Of the many concrete examples given some are calculated with the aid of the computer algebra program Macaulay illustrating the abstract material The final chapter considers open problems This book will be of interest to graduate students beginning researchers and seasoned specialists Prerequisite is a basic knowledge of commutative algebra and algebraic geometry **Lattice-Gas Cellular Automata and Lattice Boltzmann Models** Dieter A. Wolf-Gladrow,2004-10-19 Lattice gas cellular automata LGCA and lattice Boltzmann models LBM are relatively new and promising methods for the numerical solution of nonlinear partial differential equations The book provides an introduction for graduate students and researchers Working knowledge of calculus is required and experience in PDEs and fluid dynamics is recommended Some peculiarities of cellular automata are outlined in Chapter 2 The properties of various LGCA and special coding techniques are discussed in Chapter 3 Concepts from statistical mechanics Chapter 4 provide the necessary theoretical background for LGCA and LBM The properties of lattice Boltzmann models and a method for their construction are presented in Chapter 5 **Sums of Reciprocals of Fractional Parts and Multiplicative Diophantine Approximation** Victor Beresnevich,Alan Haynes,Sanju Velani,2020-04-03 Integral Geometry, Radon Transforms and Complex Analysis Carlos A. Berenstein,Peter F. Ebenfelt,Simon Gindikin,Sigurdur Helgason,Alexander Tumanov,1998-04-16 This book contains the notes of five short courses delivered at the Centro Internazionale Matematico Estivo session Integral Geometry Radon Transforms and Complex Analysis held in Venice Italy in June 1996 three of them deal with various aspects of integral geometry with a common emphasis on several kinds of Radon transforms their properties and applications the other two share a stress on CR manifolds and related problems All lectures are accessible to a wide audience and provide self contained introductions and short surveys on the subjects as well as detailed expositions of selected results *Dynamics and Analytic Number Theory* Dzmitry Badziahin,Alexander Gorodnik,Norbert Peyerimhoff,2016-11-10 Presents current

research in various topics including homogeneous dynamics Diophantine approximation and combinatorics

Approximation of Free-Discontinuity Problems Andrea Braides,1998-09-17 Functionals involving both volume and surface energies have a number of applications ranging from Computer Vision to Fracture Mechanics In order to tackle numerical and dynamical problems linked to such functionals many approximations by functionals defined on smooth functions have been proposed using high order singular perturbations finite difference or non local energies etc The purpose of this book is to present a global approach to these approximations using the theory of gamma convergence and of special functions of bounded variation The book is directed to PhD students and researchers in calculus of variations interested in approximation problems with possible applications **Séminaire de Probabilités XXXII** Jacques Azema,Michel Emery,Michel Ledoux,Marc Yor,1998-05-20 All the papers in the volume are original research papers discussing fundamental properties of stochastic processes The topics under study martingales filtrations path properties etc represent an important part of the current research performed in 1996 97 by various groups of probabilists in France and abroad The Cauchy Problem for Higher Order Abstract Differential Equations Ti-Jun Xiao,Jin Liang,2013-12-11 The main purpose of this book is to present the basic theory and some recent de velopments concerning the Cauchy problem for higher order abstract differential equations u n t AiU i t 0 t 0 U k O Uk 0 k n l where AQ Ab A are linear operators in a topological vector space E n 1 Many problems in nature can be modeled as ACP For example many n initial value or initial boundary value problems for partial differential equations stemmed from mechanics physics engineering control theory etc can be trans lated into this form by regarding the partial differential operators in the space variables as operators Ai 0 i n 1 in some function space E and letting the boundary conditions if any be absorbed into the definition of the space E or of the domain of Ai this idea of treating initial value or initial boundary value problems was discovered independently by E Hille and K Yosida in the forties The theory of ACP is closely connected with many other branches of n mathematics Therefore the study of ACPn is important for both theoretical investigations and practical applications Over the past half a century ACP has been studied extensively

Monte Carlo and Quasi-Monte Carlo Methods 2000 Kai-Tai Fang,Fred J. Hickernell,Harald Niederreiter,2011-06-28 This book represents the refereed proceedings of the Fourth International Conference on Monte Carlo and Quasi Monte Carlo Methods in Scientific Computing which was held at Hong Kong Baptist University in 2000 An important feature are invited surveys of the state of the art in key areas such as multidimensional numerical integration low discrepancy point sets random number generation and applications of Monte Carlo and quasi Monte Carlo methods These proceedings include also carefully selected contributed papers on all aspects of Monte Carlo and quasi Monte Carlo methods The reader will be informed about current research in this very active field **Algebraic and Topological Dynamics** S. F. Koli□a□da,Thomas Ward,2005 This volume contains a collection of articles from the special program on algebraic and topological dynamics and a workshop on dynamical systems held at the Max Planck Institute Bonn Germany It reflects the extraordinary vitality of dynamical systems

in its interaction with a broad range of mathematical subjects Topics covered in the book include asymptotic geometric analysis transformation groups arithmetic dynamics complex dynamics symbolic dynamics statisticalproperties of dynamical systems and the theory of entropy and chaos The book is suitable for graduate students and researchers interested in dynamical systems

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