

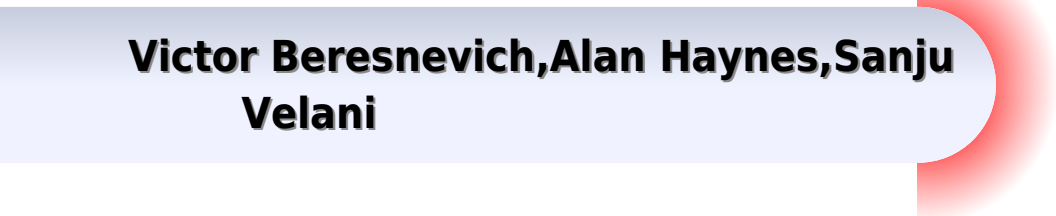
**Michael Drmota
Robert F. Tichy**

**Sequences,
Discrepancies
and Applications**

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Sequences Discrepancies And Applications

**Victor Beresnevich, Alan Haynes, Sanju
Velani**



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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 , *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

Handbook of Discrete and Computational Geometry Csaba D. Toth, Joseph O'Rourke, Jacob E. Goodman, 2017-11-22 The Handbook of Discrete and Computational Geometry is intended as a reference book fully accessible to nonspecialists as well as specialists covering all major aspects of both fields The book offers the most important results and methods in discrete and computational geometry to those who use them in their work both in the academic world as researchers in mathematics and computer science and in the professional world as practitioners in fields as diverse as operations research molecular biology and robotics Discrete geometry has contributed significantly to the growth of discrete mathematics in recent years This has been fueled partly by the advent of powerful computers and by the recent explosion of activity in the relatively young field of computational geometry This synthesis between discrete and computational geometry lies at the heart of this Handbook A growing list of application fields includes combinatorial optimization computer aided design computer graphics crystallography data analysis error correcting codes geographic information systems motion planning

operations research pattern recognition robotics solid modeling and tomography *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 Applied Algebra and Number Theory 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 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 developments concerning the Cauchy problem for higher order abstract differential equations

$$u^{(n)} + \sum_{i=0}^{n-1} A_i u^{(i)} = f$$

where $A_0, \dots, A_{n-1}$ are linear operators in a topological vector space E Many problems in nature can be modeled as ACP For example many initial value or initial boundary value problems for partial differential equations stemmed from mechanics physics engineering control theory etc can be translated into this form by regarding the partial differential operators in the space variables as operators A_i 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 A_i 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 mathematics Therefore the study of ACP is important for both theoretical investigations and practical applications Over the past half a century ACP has been studied extensively

Algebraic and Topological Dynamics S. F. Koliada,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 statistical properties of dynamical systems and the theory of

entropy and chaos The book is suitable for graduate students and researchers interested in dynamical systems

Information Security and Cryptology Dingyi Pei, Moti Yung, Dongdai Lin, Chuankun Wu, 2008-08-17 Coverage in this proceedings includes digital signature schemes block cipher key management zero knowledge and secure computation protocols secret sharing stream cipher and pseudorandomness system security and trusted computing and network security

Distribution Modulo One and Diophantine Approximation Yann Bugeaud, 2012-07-05 A treatment of cutting edge research on the distribution modulo one of sequences and related topics much of it from the last decade There are numerous exercises to aid student understanding of the topic and researchers will appreciate the notes at the end of each chapter extensive references and open problems

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

Combinatorics, Words and Symbolic Dynamics Valérie Berthé, Michel Rigo, 2016-02-26 Surveys trends arising from the applications and interactions between combinatorics symbolic dynamics and theoretical computer science

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