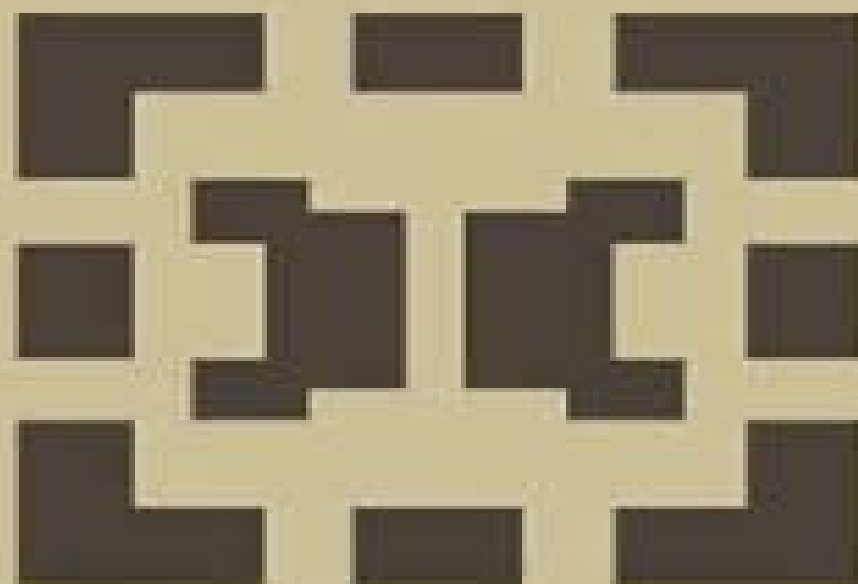


Mathematics and Its Applications

**Boris S. Stechkin and
Valeriy I. Baranov**

**Extremal Combinatorial
Problems and
Their Applications**



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Extremal Combinatorial Problems and Their Applications B.S. Stechkin,V.I. Baranov,2007-08-19 Combinatorial research has proceeded vigorously in Russia over the last few decades based on both translated Western sources and original Russian material The present volume extends the extremal approach to the solution of a large class of problems including some that were hitherto regarded as exclusively algorithmic and broadens the choice of theoretical bases for modelling real phenomena in order to solve practical problems Audience Graduate students of mathematics and engineering interested in the thematics of extremal problems and in the field of combinatorics in general Can be used both as a textbook and as a reference handbook

The Theory of Partial Algebraic Operations E.S. Ljapin,A.E. Evseev,2013-04-17 Nowadays algebra is understood basically as the general theory of algebraic operations and relations It is characterised by a considerable intrinsic naturalness of its initial notions and problems the unity of its methods and a breadth that far exceeds that of its basic concepts It is more often that its power begins to be displayed when one moves outside its own limits This characteristic ability is seen when one investigates not only complete operations but partial operations To a considerable extent these are related to algebraic operators and algebraic operations The tendency to ever greater generality is amongst the reasons that play a role in explaining this development But other important reasons play an even greater role Within this same theory of total operations that is operations defined everywhere there persistently arises in its different sections a necessity of examining the emergent feature of various partial operations It is particularly important that this has been found in those parts of algebra it brings together and other areas of mathematics it interacts with as well as where algebra finds application at the very limits of mathematics In this connection we mention the theory of the composition of mappings category theory the theory of formal languages and the related theory of mathematical linguistics coding theory information theory and algebraic automata theory In all these areas as well as in others from time to time there arises the need to consider one or another partial operation

Graphs for Pattern Recognition Damir Gainanov,2016-10-10 This monograph deals with mathematical constructions that are foundational in such an important area of data mining as pattern recognition By using combinatorial and graph theoretic techniques a closer look is taken at infeasible systems of linear inequalities whose generalized solutions act as building blocks of geometric decision rules for pattern recognition Infeasible systems of linear inequalities prove to be a key object in pattern recognition problems described in geometric terms thanks to the committee method Such infeasible systems of inequalities represent an important special subclass of infeasible systems of constraints with a monotonicity property systems whose multi indices of feasible subsystems form abstract simplicial complexes independence systems which are fundamental objects of combinatorial topology The methods of data mining and machine learning discussed in this monograph form the foundation of technologies like big data and deep learning which play a growing role in many areas of human technology interaction and help to find solutions better solutions and excellent

solutions Contents Preface Pattern recognition infeasible systems of linear inequalities and graphs Infeasible monotone systems of constraints Complexes hyper graphs and inequality systems Polytopes positive bases and inequality systems Monotone Boolean functions complexes graphs and inequality systems Inequality systems committees hyper graphs and alternative covers Bibliography List of notation Index

Semidistributive Modules and Rings A.A. Tuganbaev, 2012-12-06 A module M is called distributive if the lattice $\text{Lat } M$ of all its submodules is distributive i.e. $F \cap G \cap H = (F \cap G) \cap H = F \cap (G \cap H)$ for all submodules F, G and H of the module M A module M is called uniserial if all its submodules are comparable with respect to inclusion i.e. the lattice $\text{Lat } M$ is a chain Any direct sum of distributive resp uniserial modules is called a semidistributive resp serial module The class of distributive resp semidistributive modules properly contains the class of all uniserial resp serial modules In particular all simple resp semisimple modules are distributive resp semidistributive All strongly regular rings for example all factor rings of direct products of division rings and all commutative regular rings are distributive all valuation rings in division rings and all commutative Dedekind rings e.g. rings of integral algebraic numbers or commutative principal ideal rings are distributive A module is called a Bezout module or a locally cyclic module if every finitely generated submodule is cyclic If all maximal right ideals of a ring A are ideals e.g. if A is commutative then all Bezout A modules are distributive

Topics in Number Theory Scott D. Ahlgren, George E. Andrews, Ken Ono, 2013-12-01 From July 31 through August 3 1997 the Pennsylvania State University hosted the Topics in Number Theory Conference The conference was organized by Ken Ono and myself By writing the preface I am afforded the opportunity to express my gratitude to Ken for being the inspiring and driving force behind the whole conference Without his energy enthusiasm and skill the entire event would never have occurred We are extremely grateful to the sponsors of the conference The National Science Foundation The Penn State Conference Center and the Penn State Department of Mathematics The object in this conference was to provide a variety of presentations giving a current picture of recent significant work in number theory There were eight plenary lectures H Darmon McGill University Non vanishing of L functions and their derivatives modulo p A Granville University of Georgia Mean values of multiplicative functions C Pomerance University of Georgia Recent results in primality testing C Skinner Princeton University Deformations of Galois representations R Stanley Massachusetts Institute of Technology Some interesting hyperplane arrangements F Rodriguez Villegas Princeton University Modular Mahler measures T Wooley University of Michigan Diophantine problems in many variables The role of additive number theory D Zeilberger Temple University Reverse engineering in combinatorics and number theory The papers in this volume provide an accurate picture of many of the topics presented at the conference including contributions from four of the plenary lectures

Algebraic Integrability of Nonlinear Dynamical Systems on Manifolds A.K. Prykarpatsky, I.V. Mykytiuk, 2013-04-09 In recent times it has been stated that many dynamical systems of classical mathematical physics and mechanics are endowed with symplectic structures given in the majority of cases by Poisson brackets Very often such Poisson structures on corresponding

manifolds are canonical which gives rise to the possibility of producing their hidden group theoretical essence for many completely integrable dynamical systems. It is a well understood fact that great part of comprehensive integrability theories of nonlinear dynamical systems on manifolds is based on Lie algebraic ideas by means of which in particular the classification of such compatibly bi-Hamiltonian and isospectrally Lax type integrable systems has been carried out. Many chapters of this book are devoted to their description but to our regret so far the work has not been completed. Hereby our main goal in each analysed case consists in separating the basic algebraic essence responsible for the complete integrability and which is at the same time in some sense universal i.e. characteristic for all of them. Integrability analysis in the framework of a gradient holonomic algorithm devised in this book is fulfilled through three stages: 1 finding a symplectic structure Poisson bracket transforming an original dynamical system into a Hamiltonian form; 2 finding first integrals action variables or conservation laws; 3 defining an additional set of variables and some functional operator quantities with completely controlled evolutions for instance as Lax type representation.

Combinatorial Geometry János Pach, Pankaj K. Agarwal, 2011-10-18 A complete self contained introduction to a powerful and resurging mathematical discipline Combinatorial Geometry presents and explains with complete proofs some of the most important results and methods of this relatively young mathematical discipline started by Minkowski Fejes Toth Rogers and Erdős. Nearly half the results presented in this book were discovered over the past twenty years and most have never before appeared in any monograph. Combinatorial Geometry will be of particular interest to mathematicians computer scientists physicists and materials scientists interested in computational geometry robotics scene analysis and computer aided design. It is also a superb textbook complete with end of chapter problems and hints to their solutions that help students clarify their understanding and test their mastery of the material. Topics covered include Geometric number theory Packing and covering with congruent convex disks Extremal graph and hypergraph theory Distribution of distances among finitely many points Epsilon nets and Vapnik Chervonenkis dimension Geometric graph theory Geometric discrepancy theory And much more.

Algebraic Structures and Operators Calculus P. Feinsilver, René Schott, 1993 Introduction I General remarks 1 II Notations 5 III Lie algebras some basics 8 Chapter 1 Operator calculus and Appell systems I Boson calculus 17 II Holomorphic canonical calculus 18 III Canonical Appell systems 23 Chapter 2 Representations of Lie groups I Coordinates on Lie groups 28 II Dual representations 29 III Matrix elements 37 IV Induced representations and homogeneous spaces 40 General Appell systems Chapter 3 I Convolution and stochastic processes 44 II Stochastic processes on Lie groups 46 III Appell systems on Lie groups 49 Chapter 4 Canonical systems in several variables I Homogeneous spaces and Cartan decompositions 54 II Induced representation and coherent states 62 III Orthogonal polynomials in several variables 68 Chapter 5 Algebras with discrete spectrum I Calculus on groups review of the theory 83 II Finite difference algebra 85 III q HW algebra and basic hypergeometric functions 89 IV su_2 and Krawtchouk polynomials 93 V e_2 and Lommel polynomials 101 Chapter 6 Nilpotent and solvable algebras I Heisenberg algebras 113 II

Type H Lie algebras 118 VII III Upper triangular matrices 125 IV Affine and Euclidean algebras 127 Chapter 7 Hermitian symmetric spaces I Basic structures 131 II Space of rectangular matrices 133 III Space of skew symmetric matrices 136 IV Space of symmetric matrices 143 Chapter 8 Properties of matrix elements I Addition formulas 147 II Recurrences 148 III Quotient representations and summation formulas 149 Chapter 9 Symbolic computations I Computing the pi matrices 153 II Adjoint group 154 III Recursive computation of matrix elements

The Diophantine Frobenius Problem Jorge L. Ramírez Alfonsín, 2005-12 During the early part of the last century Ferdinand Georg Frobenius 1849 1917 raised the following problem known as the Frobenius Problem FP given relatively prime positive integers a_1, \dots, a_n find the largest natural number called the Frobenius number and denoted by $g(a_1, \dots, a_n)$ that is not representable as a nonnegative integer combination of a_1, \dots, a_n . At first glance FP may look deceptively specialized. Nevertheless it crops up again and again in the most unexpected places and has been extremely useful in investigating many different problems. A number of methods from several areas of mathematics have been used in the hope of finding a formula giving the Frobenius number and algorithms to calculate it. The main intention of this book is to highlight such methods, ideas, viewpoints and applications to a broader audience.

The Mathematics of Paul Erdős II Ronald L. Graham, Jaroslav Nešetřil, 2012-12-06 In 1992 when Paul Erdős was awarded a Doctor Honoris Causa by Charles University in Prague a small conference was held bringing together a distinguished group of researchers with interests spanning a variety of fields related to Erdős' own work. At that gathering the idea occurred to several of us that it might be quite appropriate at this point in Erdős' career to solicit a collection of articles illustrating various aspects of Erdős' mathematical life and work. The response to our solicitation was immediate and overwhelming and these volumes are the result. Regarding the organization we found it convenient to arrange the papers into six chapters each mirroring Erdős' holistic approach to mathematics. Our goal was not merely a random collection of papers but rather a thoroughly edited volume composed in large part by articles explicitly solicited to illustrate interesting aspects of Erdős and his life and work. Each chapter includes an introduction which often presents a sample of related Erdős problems in his own words. All these sometimes lengthy introductions were written jointly by editors. We wish to thank the nearly 70 contributors for their outstanding efforts and their patience. In particular we are grateful to Bela Bollobás for his extensive documentation of Paul Erdős' early years and mathematical high points in the first part of this volume; our other authors are acknowledged in their respective chapters. We also want to thank A. Bondy, G. Hahn, I. Jordan, Real and Lie Structures in Operator Algebras Sh. Ayupov, Abdugafur Rakhimov, Shukhrat Usmanov, 2013-03-14 The theory of operator algebras acting on a Hilbert space was initiated in the thirties by papers of Murray and von Neumann. In these papers they have studied the structure of algebras which later were called von Neumann algebras or W algebras. They are weakly closed complex algebras of operators on a Hilbert space. At present the theory of von Neumann algebras is a deeply developed theory with various applications. In the framework of von Neumann algebras theory the study of factors i.e. W algebras with trivial centres is very important since

they are comparatively simple and investigation of general W algebras can be reduced to the case of factors Therefore the theory of factors is one of the main tools in the structure theory of von Neumann algebras In the middle of sixtieth Topping To 1 and Stormer S 2 have initiated the study of Jordan non associative and real analogues of von Neumann algebras so called JW algebras i e real linear spaces of self adjoint operators on a complex Hilbert space which contain the identity operator 1 closed with respect to the Jordan i e symmetrised product $INTRODUCTION$ $2 \times 0 \ y \ x \ y \ x$ and closed in the weak operator topology The structure of these algebras has happened to be close to the structure of von Neumann algebras and it was possible to apply ideas and methods similar to von Neumann algebras theory in the study of JW algebras **The**

Mathematics of Paul Erdős II Ronald L. Graham, Jaroslav Nešetřil, Steve Butler, 2013-08-04 This is the most comprehensive survey of the mathematical life of the legendary Paul Erdős 1913 1996 one of the most versatile and prolific mathematicians of our time For the first time all the main areas of Erdős research are covered in a single project Because of overwhelming response from the mathematical community the project now occupies over 1000 pages arranged into two volumes These volumes contain both high level research articles as well as key articles that survey some of the cornerstones of Erdős work each written by a leading world specialist in the field A special chapter Early Days rare photographs and art related to Erdős complement this striking collection A unique contribution is the bibliography on Erdős publications the most comprehensive ever published This new edition dedicated to the 100th anniversary of Paul Erdős birth contains updates on many of the articles from the two volumes of the first edition several new articles from prominent mathematicians a new introduction and more biographical information about Paul Erdős with an updated list of publications The second volume contains chapters on graph theory and combinatorics extremal and Ramsey theory and a section on infinity that covers Erdős research on set theory All of these chapters are essentially updated particularly the extremal theory chapter that contains a survey of flag algebras a new technique for solving extremal problems *Nearrings, Nearfields and K-Loops* Gerhard Saad, Momme Johs Thomsen, 2012-12-06 This present volume is the Proceedings of the 14th International Conference on Near rings and Nearfields held in Hamburg at the Universitiit der Bundeswehr Hamburg from July 30 to August 06 1995 This Conference was attended by 70 mathematicians and many accompanying persons who represented 22 different countries from all five continents Thus it was the largest conference devoted entirely to nearrings and nearfields The first of these conferences took place in 1968 at the Mathematisches Forschungsinstitut Oberwolfach Germany This was also the site of the conferences in 1972 1976 1980 and 1989 The other eight conferences held before the Hamburg Conference took place in eight different countries For details about this and more over for a general historical overview of the development of the subject we refer to the article On the beginnings and development of near ring theory by G Betsch 3 During the last forty years the theory of nearrings and related algebraic structures like nearfields nearmodules nearalgebras and seminearrings has developed into an extensive branch of algebra with its own features In its position between group theory and ring theory this relatively

young branch of algebra has not only a close relationship to these two more well known areas of algebra but it also has just as these two theories very intensive connections to many further branches of mathematics

Abelian Groups and Modules Alberto Facchini, Claudia Menini, 2012-12-06 On the 26th of November 1992 the organizing committee gathered together at Luigi Salce's invitation for the first time The tradition of abelian groups and modules Italian conferences Rome 77 Udine 85 Bressanone 90 needed to be kept up by one more meeting Since that first time it was clear to us that our goal was not so easy In fact the main intended topics of abelian groups modules over commutative rings and non commutative rings have become so specialized in the last years that it looked really ambitious to fit them into only one meeting Anyway since everyone of us shared the same mathematical roots we did want to emphasize a common link So we elaborated the long symposium schedule three days of abelian groups and three days of modules over non commutative rings with a two days bridge of commutative algebra in between Many of the most famous names in these fields took part to the meeting Over 140 participants both attending and contributing the 18 Main Lectures and 64 Communications see list on page xv provided a really wide audience for an Algebra meeting Now that the meeting is over we can say that our initial feeling was right

A Study of Braids Kunio Murasugi, B. Kurpita, 2012-12-06 In Chapter 6 we describe the concept of braid equivalence from the topological point of view This will lead us to a new concept braid homotopy that is discussed fully in the next chapter As just mentioned in Chapter 7 we shall discuss the difference between braid equivalence and braid homotopy Also in this chapter we define a homotopy braid invariant that turns out to be the so called Milnor number Chapter 8 is a quick review of knot theory including Alexander's theorem While Chapter 9 is devoted to Markov's theorem which allows the application of this theory to other fields This was one of the motivations Artin had in mind when he began studying braid theory In Chapter 10 we discuss the primary applications of braid theory to knot theory including the introduction of the most important invariants of knot theory the Alexander polynomial and the Jones polynomial In Chapter 11 motivated by Dirac's string problem the ordinary braid group is generalized to the braid groups of various surfaces We discuss these groups from an intuitive and diagrammatic point of view In the last short chapter 12 we present without proof one theorem due to Gorin and Lin GoL that is a surprising application of braid theory to the theory of algebraic equations

Extremal Graph Theory Béla Bollobás, 2004-01-01 The ever expanding field of extremal graph theory encompasses an array of problem solving methods including applications to economics computer science and optimization theory This volume presents a concise yet comprehensive treatment featuring complete proofs for almost all of its results and numerous exercises 1978 edition

Operations Research and Discrete Analysis Aleksei D. Korshunov, 2012-12-06 The contributions to this volume have all been translated from the second volume of the Russian journal Discrete Analysis and Operational Research published at the Sobolev Institute of Mathematics Siberian Branch of the Russian Academy of Sciences Novosibirsk Russia in 1995 The papers collected here give an excellent overview of recent Russian research in such topics as analysis of algorithms

combinatorics coding theory graphs lower bounds for complexity of Boolean functions and scheduling theory and can be seen as an update of the book Discrete Analysis and Operational Research published by Kluwer in 1996 Audience This book will be of interest to specialists in discrete mathematics and computer science and engineers

Non-Archimedean Analysis: Quantum Paradoxes, Dynamical Systems and Biological Models Andrei Y. Khrennikov, 2013-03-07 Natur non facit saltus This book is devoted to the fundamental problem which arises continuously in the process of the human investigation of reality the role of a mathematical apparatus in a description of reality We pay our main attention to the role of number systems which are used or may be used in this process We shall show that the picture of reality based on the standard since the works of Galileo and Newton methods of real analysis is not the unique possible way of presenting reality in a human brain There exist other pictures of reality where other number fields are used as basic elements of a mathematical description In this book we try to build a p -adic picture of reality based on the fields of p -adic numbers \mathbb{Q}_p and corresponding analysis a particular case of so called non Archimedean analysis However this book must not be considered as only a book on p -adic analysis and its applications We study a much more extended range of problems Our philosophical and physical ideas can be realized in other mathematical frameworks which are not obliged to be based on p -adic analysis We shall show that many problems of the description of reality with the aid of real numbers are induced by unlimited applications of the so called Archimedean axiom

Computational and Constructive Design Theory W.D. Wallis, 2013-06-29 Over the last several years there has been a significant increase in computational combinatorics The most widely reported results were of course the proof of the Four Color Theorem and the proof that there is no projective plane of parameter 10 Although the computer was essential in both proofs the only reason for this was the fact that life is short The computations involved were not different in kind from those which have been done by human brains without electronic assistance they were just longer Another important fact to notice is that both problems were theoretical pure mathematical ones The pursuit of the Four Color Theorem has led to the development of whole branches of graph theory The plane of parameter 10 is not an isolated case its nonexistence is the first and so far the only counterexample to the conjecture that the Bruck Chowla Ryser conditions were necessary and sufficient for the existence of a symmetric balanced incomplete block design the study of this problem has also led to a number of theoretical advances including investigation of the relationship between codes and designs

Irregularities of Partitions Gabor Halasz, Vera T. Sos, 2012-12-06 The problem of uniform distribution of sequences initiated by Hardy Littlewood and Weyl in the 1910 s has now become an important part of number theory This is also true in relation to combinatorics of what is called Ramsey theory a theory of about the same age going back to Schur Both concern the distribution of sequences of elements in certain collection of subsets But it was not known until quite recently that the two are closely interweaving bearing fruits for both At the same time other fields of mathematics such as ergodic theory geometry information theory algorithm theory etc have also joined in See the survey articles V T S6s Irregularities of

partitions Lecture Notes Series 82 London Math Soc Surveys in Combinatorics 1983 or J Beck Irregularities of distributions and combinatorics Lecture Notes Series 103 London Math Soc Surveys in Combinatorics 1985 The meeting held at Fertod Hungary from the 7th to 11th of July 1986 was to emphasize this development by bringing together a few people working on different aspects of this circle of problems Although combinatorics formed the biggest contingent see papers 2 3 6 7 13 some number theoretic and analytic aspects see papers 4 10 11 14 generalization of both 5 8 9 12 as well as irregularities of distribution in the geometric theory of numbers 1 the most important instrument in bringing about the above combination of ideas are also represented

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