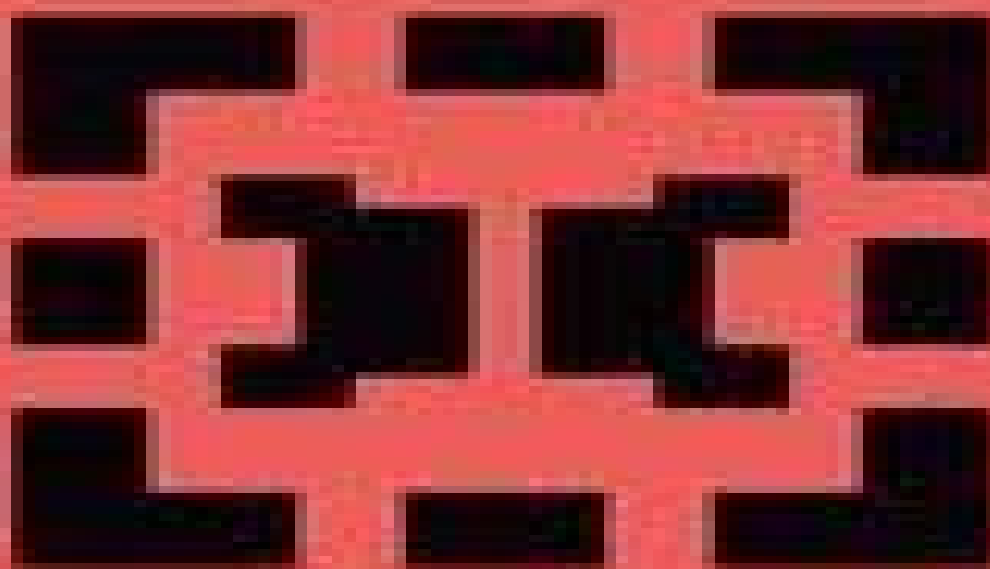


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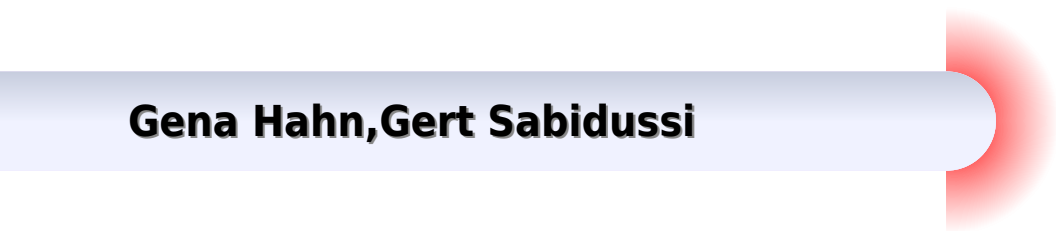
**Investigations
in Algebraic Theory
of Combinatorial Objects**



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Investigations In Algebraic Theory Of Combinatorial Objects

Gena Hahn, Gert Sabidussi



Investigations In Algebraic Theory Of Combinatorial Objects:

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Investigations in Algebraic Theory of Combinatorial Objects I.A. Faradzev, A.A. Ivanov, M. Klin, A.J. Woldar, 2013-06-29 X K chendorffer L A Kalu Inin and their students in the 50s and 60s Nowadays the most deeply developed is the theory of binary invariant relations and their combinatorial approximations These combinatorial approximations arose repeatedly during this century under various names Hecke algebras centralizer rings association schemes coherent configurations cellular rings etc see the first paper of the collection for details and in various branches of mathematics both pure and applied One of these approximations the theory of cellular rings cellular algebras was developed at the end of the 60s by B Yu Weisfeiler and A A Leman in the course of the first serious attempt to study the complexity of the graph isomorphism problem one of the central problems in the modern theory of combinatorial algorithms At roughly the same time G M Adelson Velskir V L Arlazarov I A Faradtey and their colleagues had developed a rather efficient tool for the constructive enumeration of combinatorial objects based on the branch and bound method By means of this tool a number of sports like results were obtained Some of these results are still unsurpassed

Isomorphisms, Symmetry and Computations in Algebraic Graph Theory Gareth A. Jones, Ilia Ponomarenko, Jozef Širáň, 2020-01-10 This book consists of a selection of peer reviewed contributions to the Workshop on Algebraic Graph Theory that took place in Pilsen Czech Republic in October 2016 Primarily intended for early career researchers it presents eight self contained articles on a selection of topics within algebraic combinatorics ranging from association schemes to symmetries of graphs and isomorphism testing Algebraic combinatorics is a compelling mathematical discipline based on the powerful interplay of algebraic and combinatorial methods Algebraic interpretation of combinatorial structures such as symmetry or regularity has often led to enlightening discoveries and powerful results while discrete and combinatorial structures have given rise to new algebraic structures that have found valuable applications In addition to these original research contributions the reader will

find a survey linking numerous threads in algebraic combinatorics and an extensive tutorial showcasing the universality of algebraic methods in the study of combinatorial structures

Distance-Regular Graphs Andries E. Brouwer, Arjeh M. Cohen, Arnold Neumaier, 2012-12-06 Ever since the discovery of the five platonic solids in ancient times the study of symmetry and regularity has been one of the most fascinating aspects of mathematics Quite often the arithmetical regularity properties of an object imply its uniqueness and the existence of many symmetries This interplay between regularity and symmetry properties of graphs is the theme of this book Starting from very elementary regularity properties the concept of a distance regular graph arises naturally as a common setting for regular graphs which are extremal in one sense or another Several other important regular combinatorial structures are then shown to be equivalent to special families of distance regular graphs Other subjects of more general interest such as regularity and extremal properties in graphs association schemes representations of graphs in euclidean space groups and geometries of Lie type groups acting on graphs and codes are covered independently Many new results and proofs and more than 750 references increase the encyclopaedic value of this book

Group Theory in China Zhexian Wan, Sheng-Ming Shi, 1996 Hsio Fu Tuan is a Chinese mathematician who has made important contributions to the theories of both finite groups and Lie groups He has also had a great influence on the development of algebra and particularly group theory in China The present volume consists of a collection of essays on various aspects of group theory written by some of his former students and colleagues in honour of his 80th birthday The papers contain the main general results as well as recent ones on certain topics within this discipline The chief editor Zhe Xian Wan is a leading algebraist in China

Topological Fixed Point Theory of Multivalued Mappings Lech Górniewicz, 2013-11-11 This book is an attempt to give a systematic presentation of results and methods which concern the fixed point theory of multivalued mappings and some of its applications In selecting the material we have restricted ourselves to studying topological methods in the fixed point theory of multivalued mappings and applications mainly to differential inclusions Thus in Chapter III the approximation on the graph method in fixed point theory of multivalued mappings is presented Chapter IV is devoted to the homological methods and contains more general results e.g. the Lefschetz Fixed Point Theorem the fixed point index and the topological degree theory In Chapter V applications to some special problems in fixed point theory are formulated Then in the last chapter applications to differential inclusions are presented Note that Chapter I and Chapter II have an auxiliary character and only results connected with the Banach Contraction Principle see Chapter II are strictly related to topological methods in the fixed point theory In the last section of our book see Section 75 we give a bibliographical guide and also signal some further results which are not contained in our monograph The author thanks several colleagues and my wife Maria who read and commented on the manuscript These include J Andres A Buraczewski G Gabor A Gorka M Górniewicz S Park and A Wieczorek The author wishes to express his gratitude to P Konstanty for preparing the electronic version of this monograph

Differentiable and Complex Dynamics of Several Variables

Pei-Chu Hu, Chung-Chun Yang, 2013-04-17 The development of dynamics theory began with the work of Isaac Newton. In his theory, the most basic law of classical mechanics is $f = ma$, which describes the motion n in $\mathbb{R}^n$ of a point of mass m under the action of a force f by giving the acceleration a . If n the position of the point is taken to be a point $x \in \mathbb{R}^n$ and if the force f is supposed to be a function of x only, Newton's Law is a description in terms of a second order ordinary differential equation $J_2 x'' = m \frac{d^2 f}{dx^2}$. It makes sense to reduce the equations to first order by defining the velocity as an extra n independent variable by $v \in \mathbb{R}^n$. Then $x' = v$, $m v' = f(x)$. Euler-J-L Lagrange and others studied mechanics by means of an analytical method called analytical dynamics. Whenever the force f is represented by a gradient vector field $f = -\nabla U$ of the potential energy U and denotes the difference of the kinetic energy and the potential energy by $L = \frac{1}{2} m v^2 - U(x)$, the Newton equation of motion is reduced to the Euler-Lagrange equation. If the momenta y are used as the variables, the Euler-Lagrange equation can be written as $8L_y = 8x$. Further, W. R. **Smooth Quasigroups and Loops**

L. Sabinin, 2012-12-06 During the last twenty five years, quite remarkable relations between nonassociative algebra and differential geometry have been discovered in our work. Such exotic structures of algebra as quasigroups and loops were obtained from purely geometric structures such as affinely connected spaces. The notion of module was introduced as a fundamental algebraic invariant of differential geometry. For any space with an affine connection, loop, scalar, and geodesic structures, partial smooth algebras of a special kind were introduced and studied. As it happened, the natural geodesic structure of an affinely connected space allows us to reconstruct this space in a unique way. Moreover, any smooth abstractly given geodesic structure generates in a unique manner an affinely connected space with the natural geodesic structure isomorphic to the initial one. The above said means that any affinely connected in particular Riemannian space can be treated as a purely algebraic structure equipped with smoothness. Numerous habitual geometric properties may be expressed in the language of geodesic structures by means of algebraic identities etc. Our treatment has led us to the purely algebraic concept of affinely connected in particular Riemannian spaces. For example, one can consider a discrete or even finite space with affine connection in the form of geodesic structure which can be used in the old problem of discrete space-time in relativity essential for the quantum space-time theory.

The Mathieu Groups A. A. Ivanov, 2018-06-21 The Mathieu groups have many fascinating and unusual characteristics and have been studied at length since their discovery. This book provides a unique geometric perspective on these groups. The amalgam method is explained and used to construct M_{24} , enabling readers to learn the method through its application to a familiar example. The same method is then used to construct among others the octad graph, the Witt design, and the Golay code. This book also provides a systematic account of small groups and serves as a useful reference for the Mathieu groups. The material is presented in such a way that it guides the reader smoothly and intuitively through the process leading to a deeper understanding of the topic.

Ever-Evolving Groups Alexander A. Ivanov, 2025-07-02 This book presents an original approach to the theory of finite groups, placing finite sporadic groups on an equal footing. It provides a

nearly comprehensive overview of developments in the study of sporadic groups since the classification of finite simple groups was completed. Authored by one of the key contributors to these developments, a major theme of the book is the growing role that geometry has played in this story in the form of diagram geometries, amalgams, graph theory, and pushing up. The chapters interweave various ideas and techniques applicable to all sporadic groups. Many of the results presented several due to the author and collaborators appear in book form for the first time. While much of the book describes developments from recent decades, it also includes significant new material, notably on the enigmatic Thompson group and the Monster. The final chapter explores connections to Majorana algebras and discusses some remarkable conjectures. A valuable addition to the literature on finite simple groups, this book will appeal to a wide audience from advanced graduate students to researchers in group theory, combinatorics, finite geometry, coding theory, graph theory, and other mathematical fields that use group theory to study symmetries and structures.

Symmetry in Graphs Ted Dobson, Aleksander Malnič, Dragan Marušič, 2022-05-12. This is the first full length book on the major theme of symmetry in graphs. Forming part of algebraic graph theory, this fast growing field is concerned with the study of highly symmetric graphs, particularly vertex transitive graphs and other combinatorial structures, primarily by group theoretic techniques. In practice, the street goes both ways and these investigations shed new light on permutation groups and related algebraic structures. The book assumes a first course in graph theory and group theory but no specialized knowledge of the theory of permutation groups or vertex transitive graphs. It begins with the basic material before introducing the field's major problems and most active research themes in order to motivate the detailed discussion of individual topics that follows. Featuring many examples and over 450 exercises, it is an essential introduction to the field for graduate students and a valuable addition to any algebraic graph theorist's bookshelf.

Mathematics in Berlin Heinrich Begehr, Helmut Koch, Jürg Kramer, Norbert Schappacher, Ernst-Jochen Thiele, 1998-07-21. This little book is conceived as a service to mathematicians attending the 1998 International Congress of Mathematicians in Berlin. It presents a comprehensive condensed overview of mathematical activity in Berlin from Leibniz almost to the present day without, however, including biographies of living mathematicians. Since many towering figures in mathematical history worked in Berlin, most of the chapters of this book are concise biographies. These are held together by a few survey articles presenting the overall development of entire periods of scientific life at Berlin. Overlaps between various chapters and differences in style between the chapters were inevitable but sometimes this provided opportunities to show different aspects of a single historical event, for instance the Kronecker-Weierstrass controversy. The book aims at readability rather than scholarly completeness. There are no footnotes, only references to the individual bibliographies of each chapter. Still, we do hope that the texts brought together here and written by the various authors for this volume constitute a solid introduction to the history of Berlin mathematics.

Automata, Languages and Programming Fernando Orejas, Paul G. Spirakis, Jan van Leeuwen, 2003-05-15. This book constitutes the refereed proceedings of the 28th International Colloquium on

Automata Languages and Programming ICALP 2001 held in Crete Greece in July 2001 four invited papers were carefully reviewed and selected from a total of 208 submissions complexity algorithm analysis approximation and optimization complexity concurrency efficient data structures graph algorithms language theory codes and automata model checking and protocol analysis networks and routing reasoning and verification scheduling secure computation specification and deduction and structural complexity

Graph Symmetry Gena Hahn, Gert Sabidussi, 2013-03-14 The last decade has seen two parallel developments one in computer science the other in mathematics both dealing with the same kind of combinatorial structures networks with strong symmetry properties or in graph theoretical language vertex transitive graphs in particular their prototypical examples Cayley graphs In the design of large interconnection networks it was realised that many of the most frequently used models for such networks are Cayley graphs of various well known groups This has spawned a considerable amount of activity in the study of the combinatorial properties of such graphs A number of symposia and congresses such as the bi annual IWIN starting in 1991 bear witness to the interest of the computer science community in this subject On the mathematical side and independently of any interest in applications progress in group theory has made it possible to make a realistic attempt at a complete description of vertex transitive graphs The classification of the finite simple groups has played an important role in this respect

Handbook of Combinatorics R.L. Graham, 1995-12-11 Handbook of Combinatorics

Finite Geometry and Combinatorics Albrecht Beutelspacher, Frank de Clerck, 1993 Included here are articles from many of the leading practitioners in the field including for the first time several distinguished Russian mathematicians Many of the papers contain important new results and the growing use of computer algebra packages in this area is also demonstrated

Surveys in Combinatorics, 1997 Rosemary Bailey, 1997 The invited lectures given at the 16th British Combinatorial Conference July 1997 at Queen Mary and Westfield College

Algebraic Combinatorics Eiichi Bannai, Etsuko Bannai, Tatsuro Ito, Rie Tanaka, 2021-02-22 Algebraic combinatorics is the study of combinatorial objects as an extension of the study of finite permutation groups or in other words group theory without groups In the spirit of Delsarte's theory this book studies combinatorial objects such as graphs codes designs etc in the general framework of association schemes providing a comprehensive overview of the theory as well as pointing out to extensions

Journal of Algebraic Combinatorics, 1999

Geometry of Sporadic Groups: Volume 1, Petersen and Tilde Geometries A. A. Ivanov, Aleksandr Anatolievich Ivanov, 1999-06-17 Important monograph on finite group theory

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