Günter Pickert

Einführung in die endliche Geometrie

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G. Longo,M. Marchi,A. Sgarro

Einfuhrung In Die Endliche Geometrie:

Einführung in die endliche Geometrie Günter Pickert,1974 **Design Theory** Thomas Beth,Deiter Jungnickel,Hanfried Lenz,1999 This is the first volume of the second edition of the standard text on design theory Since the first edition there has been extensive development of the theory and this book has been thoroughly rewritten and extended during that time In particular the growing importance of discrete mathematics to many parts of engineering and science have made designs a useful tool for applications It is suitable for advanced courses and as a reference work not only for researchers in discrete mathematics or finite algebra but also for those working in computer and communications engineering and other mathematically oriented disciplines Exercises are included throughout and the book concludes with an extensive and updated bibliography of well over 1800 items Projective and Cayley-Klein Geometries Arkadij L. Onishchik,Rolf Sulanke,2006-11-22 This book offers an introduction into projective geometry The first part presents n dimensional projective geometry over an arbitrary skew field the real the complex and the quaternionic geometries are the central topics finite geometries playing only a minor part The second deals with classical linear and projective groups and the associated geometries The final section summarizes selected results and problems from the geometry of transformation groups *Design Theory: Volume 2* Thomas Beth,D. Jungnickel,H. Lenz,1999-11-18 This is the second edition of the standard text on design theory Exercises are included throughout and the book concludes with an extensive and updated bibliography of well over 1800 items *Projective Geometry* Albrecht Beutelspacher,Ute Rosenbaum,1998-01-29 Projective geometry is not only a jewel of mathematics but has also many applications in modern information and communication science This book presents the foundations of classical projective and affine geometry as well as its important applications in coding theory and cryptography It also could serve as a first acquaintance with diagram geometry Written in clear and contemporary language with an entertaining style and around 200 exercises examples and hints this book is ideally suited to be used as a textbook for study in the classroom or on its own *Surveys in Combinatorics 1987* C. Whitehead,1987-07-16

A Geometrical Picture Book Burkard Polster,2012-09-17 How do you convey to your students colleagues and friends some of the beauty of the kind of mathematics you are obsessed with If you are a mathematician interested in finite or topological geometry and combinatorial designs you could start by showing them some of the 400 pictures in the picture book Pictures are what this book is all about original pictures of everybody s favorite geometries such as configurations projective planes and spaces circle planes generalized polygons mathematical biplanes and other designs which capture much of the beauty construction principles particularities substructures and interconnections of these geometries The level of the text is suitable for advanced undergraduates and graduate students Even if you are a mathematician who just wants some interesting reading you will enjoy the author s very original and comprehensive guided tour of small finite geometries and geometries on surfaces This guided tour includes lots of sterograms of the spatial models games and puzzles and

instructions on how to construct your own pictures and build some of the spatial models yourself **Einführung in die endliche Geometrie** Albrecht Beutelspacher,1982 **Combinatorics '86** M. Marchi,A. Barlotti,G. Tallini,2011-09-22 Recent developments in all aspects of combinatorial and incidence geometry are covered in this volume including their links with the foundations of geometry graph theory and algebraic structures and the applications to coding theory and computer science Topics covered include Galois geometries blocking sets affine and projective planes incidence structures and their automorphism groups Matroids graph theory and designs are also treated along with weak algebraic structures such as near rings near fields quasi groups loops hypergroups etc and permutation sets and groups The vitality of combinatorics today lies in its important interactions with computer science The problems which arise are of a varied nature and suitable techniques to deal with them have to be devised for each situation one of the special features of combinatorics is the often sporadic nature of solutions stemming from its links with number theory The branches of combinatorics are many and various and all of them are represented in the 56 papers in this volume **Einführung in die Kombinatorik** Dieter Jungnickel,2008-08-22 Ziel dieser vollst ndig berarbeiteten und erweiterten Neuauflage ist es eine weitgehend elementare Einf hrung in ausgew hlte Teile der Kombinatorik zu geben Dabei wird stets versucht nicht nur die Grundlagen darzustellen sondern auch in jedem Kapitel exemplarisch einige tiefer liegende Resultate vollst ndig zu beweisen Highlights sind allgemeine L sung des Kirkmanschen Schulm dchenproblems und mehr ber Blockpl ne projektive Ebenen und R ume einschlie lich des Freundschaftstheorems Anwendungen in der Kryptographie Authentikation von Nachrichten Zugangskontrolle zu geheimen Informationen Heiratssatz und eine F lle verwandter S tze etwa ber Fl sse auf Netzwerken allgemeine Widerlegung der Eulerschen Vermutung ber Paare orthogonaler lateinischer Quadrate der Satz vom Diktator verbl ffende Eigenschaften der Morse Thue Folge einige Perlen aus der Codierungstheorie inklusive konkreter Anwendungen etwa bei Pr fziffersystemen der klassische Satz von Ramsey und verwandte Ergebnisse Partitionen und Abz hlen etwa das klassische Menage Problem Endliche Geometrie und Graphentheorie insbesondere ein kurzer Beweis des F nffarbensatzes und das K nigsberger Br ckenproblem Das Buch wendet sich an Dozenten die eine entsprechende Vorlesung ber Kombinatorik halten sowie an Studenten der Mathematik denen das Buch als Begleitlekt re zu einer solchen Vorlesung oder zum Selbststudium dienen kann Angesprochen sind auch Lehrer und Sch ler in der gymnasialen Oberstufe die im Rahmen eines Leistungskurses erste Einblicke in die reizvollen und teilweise sehr direkten Fragestellungen der Kombinatorik gewinnen wollen **Glasnik Matematicki** ,1987 **Linear Spaces with Few Lines** Klaus Metsch,2006-11-14 A famous theorem in the theory of linear spaces states that every finite linear space has at least as many lines as points This result of De Bruijn and Erd s led to the conjecture that every linear space with few lines canbe obtained from a projective plane by changing only a small part of itsstructure Many results related to this conjecture have been proved in the last twenty years This monograph surveys the subject and presents several new results such as the recent proof of the Dowling Wilsonconjecture Typical methods used in

combinatorics are developed so that the text can be understood without too much background Thus the book will be of interest to anybody doing combinatorics and can also help other readers to learn the techniques used in this particular field

Geometries, Codes and Cryptography G. Longo,M. Marchi,A. Sgarro,2014-05-04 The general problem studied by information theory is the reliable transmission of information through unreliable channels Channels can be unreliable either because they are disturbed by noise or because unauthorized receivers intercept the information transmitted In the first case the theory of error control codes provides techniques for correcting at least part of the errors caused by noise In the second case cryptography offers the most suitable methods for coping with the many problems linked with secrecy and authentication Now both error control and cryptography schemes can be studied to a large extent by suitable geometric models belonging to the important field of finite geometries This book provides an update survey of the state of the art of finite geometries and their applications to channel coding against noise and deliberate tampering The book is divided into two sections Geometries and Codes and Geometries and Cryptography The first part covers such topicsas Galois geometries Steiner systems Circle geometry and applications to algebraic coding theory The second part deals with unconditional secrecy and authentication geometric threshold schemes and applications of finite geometry to cryptography This volume recommends itself to engineers dealing with communication problems to mathematicians and to research workers in the fields of algebraic coding theory cryptography and information theory **Combinatorial Designs** A. Hartman,1989-10-11 Haim Hanani pioneered the techniques for constructing designs and the theory of pairwise balanced designs leading directly to Wilson s Existence Theorem He also led the way in the study of resolvable designs covering and packing problems latin squares 3 designs and other combinatorial configurations The Hanani volume is a collection of research and survey papers at the forefront of research in combinatorial design theory including Professor Hanani s own latest work on Balanced Incomplete Block Designs Other areas covered include Steiner systems finite geometries quasigroups and t designs

Discrete Images, Objects, and Functions in Zn Klaus Voss,2012-12-06 This book treats theoretical problems of digital image pro cessing Voss uses the discrete nature of digital images as the basis for contructing appropriate mathematical models like n dimensional incidence structures lattices and dis crete functions Presenting the results from this point of view has the important advantage that they can be used di rectly in practical image processing Voss presents the results of his own research and has col lected other relevant and up to date material from the jour nals in this field His treatment of n dimensional incidence structures is a generalisation of the currently used two di mensional theory in image processing There are numerous new results e g on similarity of digital objects n dimensional surfacedetection and inversion of convolution equations Voss book is an indispensable source of information to all those who are involved in the design implementation and application of mathematically sound algorithms in image pro cessing it is written for engineers mathematicians and computer scientists **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 **Lexikon Ingenieurwissen-Grundlagen** Heinz M. Hiersig,2013-03-08 Fundiertes Grundlagenwissen ist die Basis f r eine erfolgreiche Praxis Das Lexikon umfa t alle Grundkenntnisse die im Ingenieurstudium verlangt werden z B aus Mathematik Mechanik Naturwissenschaften Werkstoffkunde Elektrotechnik Elektronik Me und Regelungstechnik elektronischer Datenverarbeitung Informatik sowie zu Teilgebieten der Normung des Patentwesens und der Betriebswirtschaft Concise text Das Lexikon umfa t alle Grundkenntnisse die im Ingenieurstudium verlangt werden 70 Autoren haben rund 1800 Stichw rter mit Zeichnungen Tabellen Verweisen und Literaturangaben f r Studium und Praxis bersichtlich zusammengestellt *Advances in Cryptology – EUROCRYPT '89* Jean-Jacques Quisquater,Joos Vandewalle,2003-06-30 I he int ernational Association for Cryptologic Research IACK organizes two inter tioilill coiifcrcnces every year one in Europe and one in the United States EUROCRI PT 89 was the seventh European conference and was held in Houthalen Belgium on April 10 13 1989 With close to 300 participants it was perhaps the largest open conferencr on c rypt ogra phy ever held The field of cryptography is expanding not only because of the increased vulnerability of computer systems and networks to a11 increasing range of threats but also because of t1ic ra pid progress in cryptographic methods that t he readers can witness by reading the book The present proceedings contain nearly all contributions which were presented including the talks at the rump session The chapters correspond to the sessions at the conference It wa5 the first time that a rump session was organized on a Eurocrypt conference Sixteen impromptu talks were given and the authors were invited to submit short abstracts of their presentations Because of the special character of this session the editors have taken the liberty to shorten some of these **Einleitung in die höhere Geometrie** Felix Klein,1893 **Handbook of Incidence Geometry** Francis Buekenhout,1995 Hardbound This Handbook deals with the foundations of incidence geometry in relationship with division rings rings algebras lattices groups topology graphs logic and its autonomous development from various viewpoints Projective and affine geometry are covered in various ways Major classes of rank 2 geometries such as generalized polygons and partial geometries are surveyed extensively More than half of the book is devoted to buildings at various levels of generality including a detailed and original introduction to the subject a broad study of characterizations in terms of points and lines applications to algebraic groups extensions to topological geometry a survey of results on diagram geometries and nearby generalizations such as matroids

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