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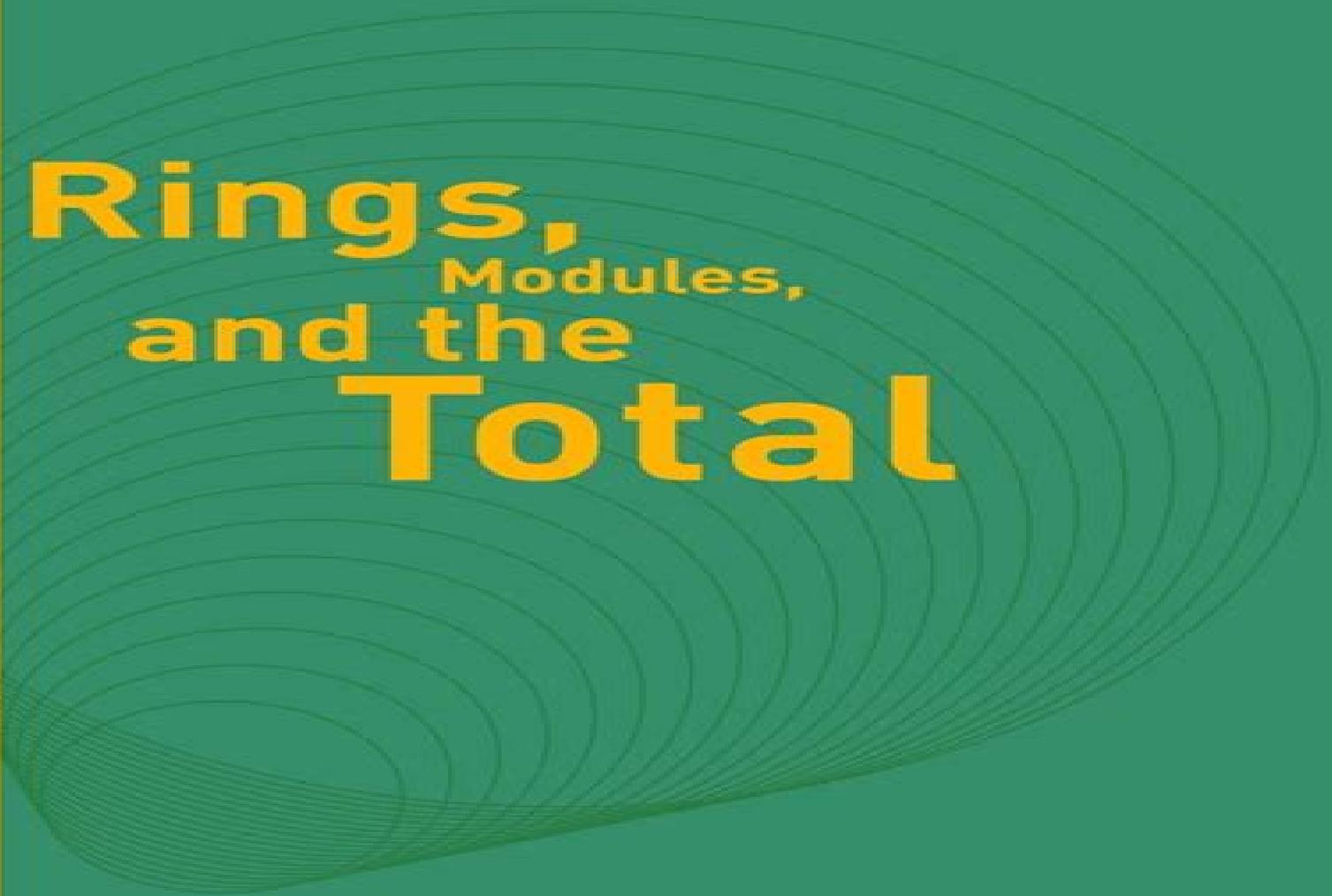
Rings,
Modules,
and the
Total

Rings Modules And The Total Frontiers In Mathematics

Friedrich Kasch,Adolf Mader

Rings Modules And The Total Frontiers In Mathematics:

    <u>Rings, Modules, and the Total</u> Friedrich Kasch,Adolf Mader,2004-06-25 Accessible to anyone with a basic knowledge of ring and module theory A short introduction to torsion free Abelian groups is included   <u>The Mathematics of Minkowski Space-Time</u> Francesco Catoni,Dino Boccaletti,Roberto Cannata,Vincenzo Catoni,Enrico Nichelatti,Paolo Zampetti,2008-06-29 This book arose out of original research on the extension of well established applications of complex numbers related to Euclidean geometry and to the space time symmetry of two dimensional Special Relativity The system of hyperbolic numbers is extensively studied and a plain exposition of space time geometry and trigonometry is given Commutative hypercomplex systems with four unities are studied and attention is drawn to their interesting properties   **Flag-transitive Steiner Designs** Michael Huber,2009-03-21 The characterization of combinatorial or geometric structures in terms of their groups of automorphisms has attracted considerable interest in the last decades and is now commonly viewed as a natural generalization of Felix Klein s Erlangen program 1872 Inaddition especiallyfor nitestructures importantapplications to practical topics such as design theory coding theory and cryptography have made the eld even more attractive The subject matter of this research monograph is the study and class cation of ag transitive Steiner designs that is combinatorial t v k 1 designs which admit a group of automorphisms acting transitively on incident point block pairs As a consequence of the classi cation of the nite simple groups it has been possible in recent years to characterize Steiner t designs mainly for t 2 adm ting groups of automorphisms with su ciently strong symmetry properties For Steiner 2 designs arguably the most general results have been the classi cation of all point 2 transitive Steiner 2 designs in 1985 by W M Kantor and the almost complete determination of all ag transitive Steiner 2 designs announced in 1990 byF Buekenhout A Delandtsheer J Doyen P B Kleidman M W Liebeck and J Saxl However despite the classi cation of the nite simple groups for Steiner t designs witht 2 most of the characterizations of these types have remained long standing challenging problems Speci cally the determination of all transitive Steiner t designs with 3 t 6 has been of particular interest and object of research for more than 40 years   **Near Polygons** Bart de Bruyn,2006-04-19 Near polygons were introduced about 25 years ago and studied intensively in the 1980s In recent years the subject has regained interest This monograph gives an extensive overview of the basic theory of general near polygons The first part of the book includes a discussion of the classes of dense near polygons regular near polygons and glued near polygons Also valuations one of the most important tools for classifying dense near polygons are treated in detail The second part of the book discusses the classification of dense near polygons with three points per line The book is self contained and almost all theorems are accompanied with proofs Several new results are presented Many known results occur in a more general form and the proofs are often more streamlined than their original versions The volume is aimed at advanced graduate students and researchers in the fields of combinatorics and finite geometry   *Classes of Good Noetherian Rings* Cristodor Ionescu,2023-03-28 This monograph provides an exhaustive treatment of several classes of

Noetherian rings and morphisms of Noetherian local rings Chapters carefully examine some of the most important topics in the area including Nagata F finite and excellent rings Bertini s Theorem and Cohen factorizations Of particular interest is the presentation of Popescu s Theorem on Neron Desingularization and the structure of regular morphisms with a complete proof Classes of Good Noetherian Rings will be an invaluable resource for researchers in commutative algebra algebraic and arithmetic geometry and number theory **Projective Geometry and Formal Geometry** Lucian Badescu,2012-12-06 The aim of this monograph is to introduce the reader to modern methods of projective geometry involving certain techniques of formal geometry Some of these methods are illustrated in the first part through the proofs of a number of results of a rather classical flavor involving in a crucial way the first infinitesimal neighbourhood of a given subvariety in an ambient variety Motivated by the first part in the second formal functions on the formal completion X Y of X along a closed subvariety Y are studied particularly the extension problem of formal functions to rational functions The formal scheme X Y introduced to algebraic geometry by Zariski and Grothendieck in the 1950s is an analogue of the concept of a tubular neighbourhood of a submanifold of a complex manifold It is very well suited to study the given embedding Y subset X The deep relationship of formal geometry with the most important connectivity theorems in algebraic geometry or with complex geometry is also studied Some of the formal methods are illustrated and applied to homogeneous spaces The book contains a lot of results obtained over the last thirty years many of which never appeared in a monograph or textbook It addresses to algebraic geometers as well as to those interested in using methods of algebraic geometry **Topics in Factorization of Abelian Groups** Sandor Szabo,2004-10-25 The main objective of this book is to give a systematic exposition of the main results and techniques of the factorization theory of abelian groups The necessary background materials are presented along with some of the most important applications in geometry combinatorics coding theory and number theory A large part of the text is accessible to students requiring only basic knowledge in group theory and algebra Helpful exercises are provided in every chapter **Mathematical Reviews** ,2007 **Gradient Flows** Luigi Ambrosio,Nicola Gigli,Giuseppe Savare,2005-01-28 This book is devoted to a theory of gradient ows in spaces which are not nec sarily endowed with a natural linear or di erentiable structure It is made of two parts the rst one concerning gradient ows in metric spaces and the second one 2 1 devoted to gradient ows in the L Wasserstein space of probability measures on p a separable Hilbert space X we consider the L Wasserstein distance p 1 as well The two parts have some connections due to the fact that the Wasserstein space of probability measures provides an important model to which the metric theory applies but the book is conceived in such a way that the two parts can be read independently the rst one by the reader more interested to Non Smooth Analysis and Analysis in Metric Spaces and the second one by the reader more oriented to theapplications in Partial Di erential Equations Measure Theory and Probability **Monomial Ideals, Computations and Applications** Anna M. Bigatti,Philippe Gimenez,Eduardo Sáenz-de-Cabezón,2013-08-24 This work covers three important aspects of monomials ideals in the three chapters Stanley

decompositions by J rgen Herzog Edge ideals by Adam Van Tuyl and Local cohomology by Josep lvarez Montaner The chapters written by top experts include computer tutorials that emphasize the computational aspects of the respective areas Monomial ideals and algebras are in a sense among the simplest structures in commutative algebra and the main objects of combinatorial commutative algebra Also they are of major importance for at least three reasons Firstly Gr bner basis theory allows us to treat certain problems on general polynomial ideals by means of monomial ideals Secondly the combinatorial structure of monomial ideals connects them to other combinatorial structures and allows us to solve problems on both sides of this correspondence using the techniques of each of the respective areas And thirdly the combinatorial nature of monomial ideals also makes them particularly well suited to the development of algorithms to work with them and then generate algorithms for more general structures   Relative Nonhomogeneous Koszul Duality Leonid Positselski,2022-02-10 This research monograph develops the theory of relative nonhomogeneous Koszul duality Koszul duality is a fundamental phenomenon in homological algebra and related areas of mathematics such as algebraic topology algebraic geometry and representation theory Koszul duality is a popular subject of contemporary research This book written by one of the world s leading experts in the area includes the homogeneous and nonhomogeneous quadratic duality theory over a nonsemisimple noncommutative base ring the Poincare Birkhoff Witt theorem generalized to this context and triangulated equivalences between suitable exotic derived categories of modules curved DG comodules and curved DG contramodules The thematic example meaning the classical duality between the ring of differential operators and the de Rham DG algebra of differential forms involves some of the most important objects of study in the contemporary algebraic and differential geometry For the first time in the history of Koszul duality the derived D Omega duality is included into a general framework Examples highly relevant for algebraic and differential geometry are discussed in detail   *Octogon Mathematical Magazine* ,2005

    Topological Rings S. Warner,1993-07-07 This text brings the reader to the frontiers of current research in topological rings The exercises illustrate many results and theorems while a comprehensive bibliography is also included The book is aimed at those readers acquainted with some very basic point set topology and algebra as normally presented in semester courses at the beginning graduate level or even at the advanced undergraduate level Familiarity with Hausdorff metric compact and locally compact spaces and basic properties of continuous functions also with groups rings fields vector spaces and modules and with Zorn s Lemma is also expected   A Course in Modern Algebra Peter Hilton,Yel-Chiang Wu,1989-01-18 This classic work is now available in an unabridged paperback edition Hilton and Wu s unique approach brings the reader from the elements of linear algebra past the frontier of homological algebra They describe a number of different algebraic domains then emphasize the similarities and differences between them employing the terminology of categories and functors Exposition begins with set theory and group theory and continues with coverage categories functors natural transformations and duality and closes with discussion of the two most fundamental derived functors of homological

algebra Ext and Tor   **The American Mathematical Monthly** ,1973   **Reviews in Ring Theory** Lance W. Small,1981   Newsletter New Zealand Mathematical Society,2004   **Concise Encyclopedia of Coding Theory** W. Cary Huffman,Jon-Lark Kim,Patrick Solé,2021-03-25 Most coding theory experts date the origin of the subject with the 1948 publication of A Mathematical Theory of Communication by Claude Shannon Since then coding theory has grown into a discipline with many practical applications antennas networks memories requiring various mathematical techniques from commutative algebra to semi definite programming to algebraic geometry Most topics covered in the Concise Encyclopedia of Coding Theory are presented in short sections at an introductory level and progress from basic to advanced level with definitions examples and many references The book is divided into three parts Part I fundamentals cyclic codes skew cyclic codes quasi cyclic codes self dual codes codes and designs codes over rings convolutional codes performance bounds Part II families AG codes group algebra codes few weight codes Boolean function codes codes over graphs Part III applications alternative metrics algorithmic techniques interpolation decoding pseudo random sequences lattices quantum coding space time codes network coding distributed storage secret sharing and code based cryptography Features Suitable for students and researchers in a wide range of mathematical disciplines Contains many examples and references Most topics take the reader to the frontiers of research   **Invariant Theory** F. Gherardelli,2006-11-15   **Canadian Mathematical Bulletin** ,1968

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