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Larry L. Dornhoff & Franz E. Hohn

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S. R. Nagpaul



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Applied Modern Algebra Larry L. Dornhoff, Franz Edward Hohn, 1978 **Applied Abstract Algebra** Rudolf Lidl, Günter Pilz, 1997-11-25 Accessible to junior and senior undergraduate students this survey contains many examples solved exercises sets of problems and parts of abstract algebra of use in many other areas of discrete mathematics Although this is a mathematics book the authors have made great efforts to address the needs of users employing the techniques discussed Fully worked out computational examples are backed by more than 500 exercises throughout the 40 sections This new edition includes a new chapter on cryptology and an enlarged chapter on applications of groups while an extensive chapter has been added to survey other applications not included in the first edition The book assumes knowledge of the material covered in a course on linear algebra and preferably a first course in abstract algebra covering the basics of groups rings and fields

Applied Abstract Algebra Rudolf Lidl, Günter Pilz, 2012-12-06 There is at present a growing body of opinion that in the decades ahead discrete mathematics that is noncontinuous mathematics and therefore parts of applicable modern algebra will be of increasing importance Certainly one reason for this opinion is the rapid development of computer science and the use of discrete mathematics as one of its major tools The purpose of this book is to convey to graduate students or to final year undergraduate students the fact that the abstract algebra encountered previously in a first algebra course can be used in many areas of applied mathematics It is often the case that students who have studied mathematics go into postgraduate work without any knowledge of the applicability of the structures they have studied in an algebra course In recent years there have emerged courses and texts on discrete mathematics and applied algebra The present text is meant to add to what is available by focusing on three subject areas The contents of this book can be described as dealing with the following major themes Applications of Boolean algebras Chapters 1 and 2 Applications of finite fields Chapters 3 to 5 Applications of semigroups Chapters 6 and 7

Applied Abstract Algebra with Maple™ and MATLAB Richard Klima, Neil Sigmon, Ernest Stitzinger, 2015-11-18 Applied Abstract Algebra with Maple™ and MATLAB provides an in depth introduction to real world abstract algebraic problems This popular textbook covers a variety of topics including block designs coding theory cryptography and counting techniques including Polya's and Burnside's theorems The book also includes a concise review of all prereq

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Applied Abstract Algebra David Joyner, Richard Kreminski, Joann Turisco, 2004-06 With the advent of computers that can handle symbolic manipulations abstract algebra can now be applied In this book David Joyner Richard Kreminski and Joann Turisco introduce a wide range of abstract algebra with relevant and interesting applications from error correcting codes to cryptography to the group theory of Rubik's cube They cover basic topics such as the Euclidean algorithm encryption and permutations Hamming codes and Reed Solomon codes used on today's CDs are also discussed The authors present examples as diverse as Rotation available on the Nokia 7160 cell phone bell ringing and the game of NIM In place of the standard treatment of group theory which emphasizes the classification of groups the authors highlight examples and computations Cyclic groups the general linear group GL_n and the symmetric groups are emphasized With its clear writing style and wealth of examples Applied Abstract Algebra will be welcomed by mathematicians computer scientists and students alike Each chapter includes exercises in GAP a free computer algebra system and MAGMA a noncommercial computer algebra system which are especially helpful in giving students a grasp of practical examples

Introduction to Modern Algebra and Its Applications Nadiya Gubareni, 2021-06-23 The book provides an introduction to modern abstract algebra and its applications It covers all major topics of classical theory of numbers groups rings fields and finite dimensional algebras The book also provides interesting and important modern applications in such subjects as Cryptography Coding Theory Computer Science and Physics In particular it considers algorithm RSA secret sharing algorithms Diffie Hellman Scheme and ElGamal cryptosystem based on discrete logarithm problem It also presents Buchberger's algorithm which is one of the important algorithms for constructing Gröbner basis Key Features Covers all major topics of classical theory of modern abstract algebra such as groups rings and fields and their applications In addition it provides the introduction to the number theory theory of finite fields finite dimensional algebras and their applications Provides interesting and important modern applications in such subjects as Cryptography Coding Theory Computer Science and Physics Presents numerous examples illustrating the theory and applications It is also filled with a number of exercises of various difficulty Describes in detail the construction of the Cayley Dickson construction for finite dimensional algebras in

particular algebras of quaternions and octonions and gives their applications in the number theory and computer graphics

Applied Abstract Algebra Ki Hang Kim, Fred W. Roush, 2001-01-01 **An Introduction to Abstract Algebra** F. M. Hall, 1972-04-06 This two volume course on abstract algebra provides a broad introduction to the subject for those with no previous knowledge of it but who are well grounded in ordinary algebraic techniques It starts from the beginning leading up to fresh ideas gradually and in a fairly elementary manner and moving from discussion of particular concrete cases to abstract ideas and methods It thus avoids the common practice of presenting the reader with a mass of ideas at the beginning which he is only later able to relate to his previous mathematical experience The work contains many concrete examples of algebraic structures Each chapter contains a few worked examples for the student these are divided into straightforward and more advanced categories Answers are provided From general sets Volume 1 leads on to discuss special sets of the integers other number sets residues polynomials and vectors A chapter on mappings is followed by a detailed study of the fundamental laws of algebra and an account of the theory of groups which takes the idea of subgroups as far as Lagrange's theorem Some improvements in exposition found desirable by users of the book have been incorporated into the second edition and the opportunity has also been taken to correct a number of errors **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 *Modern Algebra* John R. Durbin, 2008-12-31 The new sixth edition of Modern Algebra has two main goals to introduce the most important kinds of algebraic structures and to help students improve their ability to understand and work with abstract ideas The first six chapters present the core of the subject the remainder are designed to be as flexible as possible The text covers groups before rings which is a matter of personal preference for instructors Modern Algebra 6e is appropriate for any one semester junior senior level course in Modern Algebra Abstract Algebra Algebraic Structures or Groups Rings and Fields The course is mostly comprised of mathematics majors but engineering and computer science majors may also take it as well **Applied Abstract Algebra** Ki Hang Kim, Fred William Roush, 1983 **Abstract Algebra with Applications** Audrey Terras, 2019 This text offers a friendly and concise introduction to abstract algebra emphasizing its uses in the modern world *Post-Modern Algebra* Jonathan D. H. Smith, Anna B. Romanowska, 2011-09-30 Advanced algebra in the service of contemporary mathematical research a unique introduction This volume takes an altogether new approach to advanced algebra Its intriguing title inspired by the term postmodernism denotes a departure from van der Waerden's Modern Algebra a book that has dominated the field for nearly

seventy years Post Modern Algebra offers a truly up to date alternative to the standard approach explaining topics from an applications based perspective rather than by abstract principles alone The book broadens the field of study to include algebraic structures and methods used in current and emerging mathematical research and describes the powerful yet subtle techniques of universal algebra and category theory Classical algebraic areas of groups rings fields and vector spaces are bolstered by such topics as ordered sets monoids monoid actions quasigroups loops lattices Boolean algebras categories and Heyting algebras The text features A clear and concise treatment at an introductory level tested in university courses A wealth of exercises illustrating concepts and their practical application Effective techniques for solving research problems in the real world Flexibility of presentation making it easy to tailor material to specific needs Help with elementary proofs and algebraic notations for students of varying abilities Post Modern Algebra is an excellent primary or supplementary text for graduate level algebra courses It is also an extremely useful resource for professionals and researchers in many areas who must tackle abstract linear or universal algebra in the course of their work

Exploring Abstract Algebra With Mathematica® Allen C. Hibbard, Kenneth M. Levasseur, 2012-12-06 What is Exploring Abstract Algebra with Mathematica Exploring Abstract Algebra with Mathematica is a learning environment for introductory abstract algebra built around a suite of Mathematica packages entitled AbstractAlgebra These packages are a foundation for this collection of twenty seven interactive labs on group and ring theory The lab portion of this book reflects the contents of the Mathematica based electronic notebooks contained in the accompanying CD ROM Students can interact with both the printed and electronic versions of the material in the laboratory and look up details and reference information in the User's Guide Exercises occur in the stream of the text of labs providing a context in which to answer The notebooks are designed so that the answers to the questions can either be entered into the electronic notebook or written on paper whichever the instructor prefers The notebooks support versions 2.2 and 3.0.4.0 and are compatible with all platforms that run Mathematica This work can be used to supplement any introductory abstract algebra text and is not dependent on any particular text The group and ring labs have been cross referenced against some of the more popular texts This information can be found on our web site at <http://www.central.edu/eaarn.html> which is also mirrored at <http://www.url.edu/Dept/Math/eaarn/eaarn.html> If your favorite text isn't on our list it can be added upon request by contacting either author

Modern Algebra with Applications William J. Gilbert, W. Keith Nicholson, 2004-01-30 Praise for the first edition This book is clearly written and presents a large number of examples illustrating the theory there is no other book of comparable content available Because of its detailed coverage of applications generally neglected in the literature it is a desirable if not essential addition to undergraduate mathematics and computer science libraries CHOICE As a cornerstone of mathematical science the importance of modern algebra and discrete structures to many areas of science and technology is apparent and growing with extensive use in computing science physics chemistry and data communications as well as in areas of mathematics such as combinatorics Blending the theoretical with

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Algebra Aigli Papantonopoulou, 2002 This book provides thorough coverage of the main topics of abstract algebra while offering nearly 100 pages of applications A repetition and examples first approach introduces learners to mathematical rigor and abstraction while teaching them the basic notions and results of modern algebra Chapter topics include group theory direct products and Abelian groups rings and fields geometric constructions historical notes symmetries and coding theory For future teachers of algebra and geometry at the high school level

Elements of Modern Algebra Jimmie Gilbert, Linda Gilbert, 2005 Helping to make the study of modern algebra more accessible this text gradually introduces and develops concepts through helpful features that provide guidance on the techniques of proof construction and logic analysis The text develops mathematical maturity for students by presenting the material in a theorem proof format with definitions and major results easily located through a user friendly format The treatment is rigorous and self contained in keeping with the objectives of training the student in the techniques of algebra and of providing a bridge to higher level mathematical courses

Elements of Algebraic Coding Theory Lekh R. Verma, 2022-01-26 Coding theory came into existence in the late 1940s and is concerned with devising efficient encoding and decoding procedures The book is intended as a principal text for first courses in coding and algebraic coding theory and is aimed at advanced undergraduates and recent graduates as both a course and self study text BCH and cyclic Group codes Hamming codes polynomial as well as many other codes are introduced in this textbook Incorporating numerous worked examples and complete logical proofs it is an ideal introduction to the fundamental of algebraic coding

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