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THIRD EDITION



Richard Klima
Neil Sigmon
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Applied Abstract Algebra Textbooks Mathematics

**David Joyner, Richard Kreminski, Joann
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Applied Abstract Algebra Richard Klima, Neil P. Sigmon, Ernest Stitzinger, 2015-12-04 This book provides an in depth introduction to real world abstract algebraic problems Chapters examine the prerequisite advanced mathematics needed examine block designs coding theory and cryptography while the final chapters cover counting techniques including Polya's and Burnside's theorems Eliminating the need for heavy number crunching sophisticated mathematical software packages open the door to areas like cryptography coding theory and combinatorics that are dependent on abstract algebra This book explores these topics and shows how to apply the software programs to abstract algebra and its related fields

Applied Abstract Algebra, 2E Lidl, 2004-01-01 **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

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Applied Abstract Algebra Dr. T. N. Purohit, Applied Abstract Algebra is a textbook aimed at junior and senior undergraduates that shows how abstract algebraic structures like lattices finite fields semigroups Boolean algebras etc are applied in real world and discrete mathematics contexts such as coding theory cryptology switching circuits The 2nd edition includes over 500 exercises across about 40 sections many worked examples and new enlarged chapters on cryptology and group applications It assumes you already have a background in linear algebra and introductory abstract algebra groups rings fields Survey overview aimed at junior and senior undergraduate students Focuses on parts of abstract algebra that are useful in discrete mathematics and other applications Includes many examples solved exercises and sets of problems to help with understanding Newer edition 2nd ed has updated refined material improved presentation updated references new or enlarged chapters e.g. cryptology applications of groups Requires prerequisites knowledge of linear algebra and preferably some basic abstract algebra groups rings fields

Applied Abstract Algebra Ki Hang Kim, Fred W. Roush, 2001-01-01

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

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