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THIRD EDITION



Richard Klima
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Ernest Stitzinger

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Applied Abstract Algebra Textbooks Mathematics

Rudolf Lidl, Günter Pilz



Applied Abstract Algebra Textbooks Mathematics:

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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

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