

Discrete Mathematics
and Applied Modern Algebra
Henry B. Laufer



FROM PHILSCORNER

Discrete Mathematics And Applied Modern Algebra

Richard J. Sgroi, Laura Shannon Sgroi



Discrete Mathematics And Applied Modern Algebra:

Discrete Mathematics and Applied Modern Algebra Henry B. Laufer, 1984 **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 *Discrete and Combinatorial Mathematics* Ralph P. Grimaldi, 2004 This text is organised into 4 main parts discrete mathematics graph theory modern algebra and combinatorics flexible modular structuring It includes a large variety of elementary problems allowing students to establish skills as they practice **Discrete Mathematics: Applied Algebra for Computer and Information Science** Leonard S. Bobrow, Michael A. Arbib, 1974 **Elements of Modern Algebra** Jimmie Gilbert, Linda Gilbert, 1991 **Introduction to Finite Fields and Their Applications** Rudolf Lidl, Harald Niederreiter, 1994-07-21 Presents an introduction to the theory of finite fields and some of its most important applications

Modern Algebra and Discrete Structures R. F. Lax, 1991 This text offers students clarity and instructors flexibility Its thorough coverage of applications algorithms and examples and its inclusion of many proofs explain and reinforce the material Its traditional organization makes it a suitable text for several courses Attention to contemporary topics such as key cryptosystems and coding theory makes the text current It is flexible enough to be used for courses in applied algebra or modern abstract algebra **Modern Abstract Algebra** David C. Buchthal, Douglas E. Cameron, 1987 [Mathematics for Elementary School Teachers](#) Richard J. Sgroi, Laura Shannon Sgroi, 1993 [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 the practical in the instruction of modern algebra *Modern Algebra with Applications* Second Edition provides interesting and important applications of this subject effectively holding your interest and creating a more seamless method of instruction Incorporating the applications of modern algebra throughout its authoritative treatment of the subject this book covers the

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Calculus of a Single Variable Earl William Swokowski,1991 The strengths of these texts are characterized by mathematical integrity comprehensive discussions of the concepts of calculus and an impressively large collection of worked examples and illustrative figures

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