MODERN ALGEBRA

ANINTRODUCTION

John R. Durbin 2nd Ed.

Modern Algebra An Introduction

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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 Gr obner basis The Cayley Dickson construction for finite dimensional algebras is described The structure and properties of quaternions and octonions are studied in details and their applications in the number theory and computer graphics are presented An Introduction to Modern Algebra Burton Wadsworth Jones, 1975 Introduction to Modern Algebra Zoltan P. Dienes, 1966 An Introduction to Essential Algebraic Structures Martyn R. Dixon, Leonid A. Kurdachenko, Igor Ya Subbotin, 2014-11-05 A reader friendly introduction to modern algebra with important examples from various areas of mathematics Featuring a clear and concise approach An Introduction to Essential Algebraic Structures presents an integrated approach to basic concepts of modern algebra and highlights topics that play a central role in various branches of mathematics. The authors discuss key topics of abstract and modern algebra including sets number systems groups rings and fields The book begins with an exposition of the elements of set theory and moves on to cover the main ideas and branches of abstract algebra In addition the book includes Numerous examples throughout to deepen readers knowledge of the presented material An exercise set after each chapter section in an effort to build a deeper understanding of the subject and improve knowledge retention Hints and answers to select exercises at the end of the book A supplementary website with an Instructors Solutions manual An Introduction to Essential Algebraic Structures is an excellent textbook for introductory courses in abstract algebra as well as an ideal reference for anyone who would like to be more familiar with the basic topics of abstract algebra Modern Introduction to Modern Algebra and Matrix Theory Otto Schreier, Emanuel Sperner, 2011-01-01 This Algebra, 1962 unique text provides students with a basic course in both calculus and analytic geometry. It promotes an intuitive approach to calculus and emphasizes algebraic concepts Minimal prerequisites Numerous exercises 1951 edition

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