

Elementary Linear Algebra 2nd Edition

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about the book this book on algebra includes extensive revisions of the material on finite groups and galois theory further more the book also contains new problems relating to algebra

algebra second edition by michael artin is ideal for the honors undergraduate or introductory graduate course the second edition of this classic text

incorporates twenty years of feedback and the author's own teaching experience the text discusses concrete topics of algebra in greater detail than most texts preparing students for the more abstract concepts linear algebra is tightly integrated throughout

accessible but rigorous this outstanding text encompasses all of the topics covered by a typical course in elementary abstract algebra its easy to read treatment offers an intuitive approach featuring informal discussions followed by thematically arranged exercises this second edition features additional exercises to improve student familiarity with applications 1990 edition

a concise handbook of mathematics physics and engineering sciences takes a practical approach to the basic notions formulas equations problems theorems methods and laws that most frequently occur in scientific and engineering applications and university education the authors pay special attention to issues that many engineers and students

this classic text and standard reference comprises all subjects of a first year graduate level course including in depth coverage of groups and polynomials and extensive use of categories and functors 1989 edition

this book links two subjects algebraic geometry and coding theory it uses a novel approach based on the theory of algebraic function fields coverage includes the riemann rock theorem zeta functions and hasse weil's theorem as well as goppa's algebraic geometric codes and other traditional codes it will be useful to researchers in algebraic geometry and coding theory and computer scientists and engineers in information transmission

from the reviews the book is well written we find here many examples each chapter is followed by exercises and at the end of the book there are outline solutions to some of them i especially appreciated the lively style of the book one is quickly able to find necessary details ems newsletter

this book presents and illustrates the main tools and ideas of algebraic graph theory with a primary emphasis on current rather than classical topics it is designed to offer self contained treatment of the topic with strong emphasis on concrete examples

a clear exposition with exercises of the basic ideas of algebraic topology suitable for a two semester course at the beginning graduate level it assumes a knowledge of point set topology and basic algebra although categories and functors are introduced early in the text excessive generality is avoided and the

author explains the geometric or analytic origins of abstract concepts as they are introduced

a classic text and standard reference for a generation this volume covers all undergraduate algebra topics including groups rings modules galois theory polynomials linear algebra and associative algebra 1985 edition

for the third edition the author has added a new chapter on associative algebras that includes the well known characterizations of the finite dimensional division algebras over the real field a theorem of frobenius and over a finite field wedderburn s theorem polished and refined some arguments such as the discussion of reflexivity the rational canonical form best approximations and the definitions of tensor products upgraded some proofs that were originally done only for finite dimensional rank cases added new theorems including the spectral mapping theorem corrected all known errors the reference section has been enlarged considerably with over a hundred references to books on linear algebra from the reviews of the second edition in this 2nd edition the author has rewritten the entire book and has added more than 100 pages of new materials as in the previous edition the text is well written and gives a thorough discussion of many topics of linear algebra and related fields the exercises are rewritten and expanded overall i found the book a very useful one it is a suitable choice as a graduate text or as a reference book ali akbar jafarian zentralblattmath this is a formidable volume a compendium of linear algebra theory classical and modern the development of the subject is elegant the proofs are neat the exercise sets are good with occasional hints given for the solution of trickier problems it represents linear algebra and does so comprehensively henry ricardo mathdl

about the first edition the text is geared to the needs of the beginning graduate student covering with complete well written proofs the usual major branches of groups rings fields and modules n one of the material one expects in a book like this is missing and the level of detail is appropriate for its intended audience alberto delgado mathscinet this text promotes the conceptual understanding of algebra as a whole and that with great methodological mastery although the presentation is predominantly abstract it nevertheless features a careful selection of important examples together with a remarkably detailed and strategically skillful elaboration of the more sophisticated abstract theories werner kleinert zentralblatt for the new edition the author has completely rewritten the text reorganized many of the sections and even cut or shortened material which is no longer essential he has added a chapter on ext and tor as well as a bit of topology

a description of 148 algorithms fundamental to number theoretic computations in particular for computations related to algebraic number theory elliptic

curves primality testing and factoring the first seven chapters guide readers to the heart of current research in computational algebraic number theory including recent algorithms for computing class groups and units as well as elliptic curve computations while the last three chapters survey factoring and primality testing methods including a detailed description of the number field sieve algorithm the whole is rounded off with a description of available computer packages and some useful tables backed by numerous exercises written by an authority in the field and one with great practical and teaching experience this is certain to become the standard and indispensable reference on the subject

this is the new improved 2nd edition version of no nonsense algebra completely edited and now contains extra quizzes for each chapter to maximize learning

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