

An Introduction To Abstract Mathematics Bond Keane

An Introduction to Abstract Algebra An Introduction to Abstract Algebra Introduction to
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abstract algebra Introduction to Abstract Algebra Introduction to Abstract Algebra *F. M. Hall Frederick Michael Hall T.A. Whitelaw John F. Lucas Frederick Michael Hall Robert J. Bond Jonathan D. H. Smith Frederick Michael Hall Derek J.S. Robinson T. A. Whitelaw W. Keith Nicholson C. R. J. Clapham Bruno Nachtergaele Dennis Burley Ames T.A. Whitelaw Elbert Walker T. A. Bick Christopher Robert Jasper Clapham Louis Shapiro Roy Dubisch*

this two volume course on abstract algebra provides a broad introduction to the subject for those with no previous knowledge of it but who are well grounded in ordinary algebraic techniques it starts from the beginning leading up to fresh ideas gradually and in a fairly elementary manner and moving from discussion of particular concrete cases to abstract ideas and methods it thus avoids the common practice of presenting the reader with a mass of ideas at the beginning which he is only later able to relate to his previous mathematical experience the work contains many concrete examples of algebraic structures each chapter contains a few worked examples for the student these are divided into straightforward and more advanced categories answers are provided from general sets volume 1 leads on to discuss special sets of the integers other number sets residues polynomials and vectors a chapter on mappings is followed by a detailed study of the fundamental laws of algebra and an account of the theory of groups which takes the idea of subgroups as far as langrange s theorem some improvements in exposition found desirable by users of the book have been incorporated into the second edition and the opportunity has also been taken to correct a number of errors

the first and second editions of this successful textbook have been highly praised for their lucid and detailed coverage of abstract algebra in this third edition the author has carefully revised and extended his treatment particularly the material on rings and fields to provide an even more satisfying first course in abstract algebra

this is a book about mathematics and mathematical thinking it is intended for the serious learner who is interested in studying some deductive strategies in the context of a variety of elementary mathematical situations no background beyond single variable

calculus is presumed

bond and keane explicate the elements of logical mathematical argument to elucidate the meaning and importance of mathematical rigor with definitions of concepts at their disposal students learn the rules of logical inference read and understand proofs of theorems and write their own proofs all while becoming familiar with the grammar of mathematics and its style in addition they will develop an appreciation of the different methods of proof contradiction induction the value of a proof and the beauty of an elegant argument the authors emphasize that mathematics is an ongoing vibrant discipline its long fascinating history continually intersects with territory still uncharted and questions still in need of answers the authors extensive background in teaching mathematics shines through in this balanced explicit and engaging text designed as a primer for higher level mathematics courses they elegantly demonstrate process and application and recognize the byproducts of both the achievements and the missteps of past thinkers chapters 1 5 introduce the fundamentals of abstract mathematics and chapters 6 8 apply the ideas and techniques placing the earlier material in a real context readers interest is continually piqued by the use of clear explanations practical examples discussion and discovery exercises and historical comments

introduction to abstract algebra second edition presents abstract algebra as the main tool underlying discrete mathematics and the digital world it avoids the usual groups first rings first dilemma by introducing semigroups and monoids the multiplicative structures of rings along with groups this new edition of a widely adopted textbook covers

no detailed description available for an introduction to abstract algebra

the third edition of introduction to abstract algebra continues to provide an accessible introduction to the basic structures of abstract algebra groups rings and fields the text s unique approach helps you advance to abstract theory by presenting concrete examples of induction number theory integers modulo n and permutations before the abstract

structures are defined

this is an introductory textbook designed for undergraduate mathematics majors with an emphasis on abstraction and in particular the concept of proofs in the setting of linear algebra typically such a student would have taken calculus though the only prerequisite is suitable mathematical grounding the purpose of this book is to bridge the gap between the more conceptual and computational oriented undergraduate classes to the more abstract oriented classes the book begins with systems of linear equations and complex numbers then relates these to the abstract notion of linear maps on finite dimensional vector spaces and covers diagonalization eigenspaces determinants and the spectral theorem each chapter concludes with both proof writing and computational exercises

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introduction to abstract mathematics focuses on the principles approaches and operations involved in abstract mathematics including metric spaces sets axiom systems and open sentences the book first offers information on logic and set theory natural numbers and integers and rational numbers discussions focus on rational numbers and ordered fields ordering arithmetic axiom systems and methods of proof functions of kindred matters ordered pairs and relations sets and statements and open sentences the text then examines real and complex numbers metric spaces and limits topics include generalized limits continuous functions openness closedness and neighborhood systems definition and basic properties and construction of \mathbb{R} the publication is a vital reference for mathematicians and students interested in abstract mathematics

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