

# Algebra Abstracta

Yijin Wang

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an axiomatic framework and to emphasize the importance of studying those maps that preserve the underlying algebraic structure This fast paced introduction is followed by chapters in which each of the four main topics is revisited and deeper results are proven The second half of the book contains material of a more advanced nature It includes a thorough development of Galois theory a chapter on modules and short surveys of additional algebraic topics designed to whet the reader s appetite for further study This book is intended for a first introduction to abstract algebra and requires only a course in linear algebra as a prerequisite The more advanced material could be used in an introductory graduate level course

Abstract Algebra: Introduction To Groups, Rings And Fields With Applications (Second Edition) Clive Reis, Stuart A Rankin, 2016-08-30 This second edition covers essentially the same topics as the first However the presentation of the material has been extensively revised and improved In addition there are two new chapters one dealing with the fundamental theorem of finitely generated abelian groups and the other a brief introduction to semigroup theory and automata This book is appropriate for second to fourth year undergraduates In addition to the material traditionally taught at this level the book contains several applications Polya Burnside Enumeration Mutually Orthogonal Latin Squares Error Correcting Codes and a classification of the finite groups of isometries of the plane and the finite rotation groups in Euclidean 3 space semigroups and automata It is hoped that these applications will help the reader achieve a better grasp of the rather abstract ideas presented and convince him her that pure mathematics in addition to having an austere beauty of its own can be applied to solving practical problems Considerable emphasis is placed on the algebraic system consisting of the congruence classes mod n under the usual operations of addition and multiplication. The reader is thus introduced via congruence classes to the idea of cosets and factor groups This enables the transition to cosets and factor objects to be relatively painless In this book cosets factor objects and homomorphisms are introduced early on so that the reader has at his her disposal the tools required to give elegant proofs of the fundamental theorems Moreover homomorphisms play such a prominent role in algebra that they are used in this text wherever possible Introduction to the Theory of Abstract Algebras Richard S Pierce, 2015-01-21 Suitable for introductory graduate level courses and independent study this text presents the basic definitions of the theory of abstract algebra Following introductory material each of four chapters focuses on a major theme of universal algebra subdirect decompositions direct decompositions free algebras and varieties of algebra Problems and a bibliography supplement the text **Elements of Abstract Algebra** Allan Clark, 2012-07-06 Lucid coverage of the major theories of abstract algebra with helpful illustrations and exercises included throughout Unabridged corrected republication of the work originally published 1971 Bibliography Index Includes 24 tables and figures Thinking **Algebraically: An Introduction to Abstract Algebra** Thomas Q. Sibley, 2021-06-08 Thinking Algebraically presents the insights of abstract algebra in a welcoming and accessible way It succeeds in combining the advantages of rings first and groups first approaches while avoiding the disadvantages After an historical overview the first chapter studies familiar

examples and elementary properties of groups and rings simultaneously to motivate the modern understanding of algebra The text builds intuition for abstract algebra starting from high school algebra In addition to the standard number systems polynomials vectors and matrices the first chapter introduces modular arithmetic and dihedral groups The second chapter builds on these basic examples and properties enabling students to learn structural ideas common to rings and groups isomorphism homomorphism and direct product The third chapter investigates introductory group theory Later chapters delve more deeply into groups rings and fields including Galois theory and they also introduce other topics such as lattices The exposition is clear and conversational throughout The book has numerous exercises in each section as well as supplemental exercises and projects for each chapter Many examples and well over 100 figures provide support for learning Short biographies introduce the mathematicians who proved many of the results The book presents a pathway to algebraic thinking in a semester or year long algebra course **Applied Abstract Algebra** Rudolf Lidl, Günter Pilz, 2012-12-06 There is at present a growing body of opinion that in the decades ahead discrete mathematics that is noncontinuous mathematics and therefore parts of applicable modern algebra will be of increasing importance Cer tainly one reason for this opinion is the rapid development of computer science and the use of discrete mathematics as one of its major tools. The purpose of this book is to convey to graduate students or to final year undergraduate students the fact that the abstract algebra encountered pre viously in a first algebra course can be used in many areas of applied mathematics. It is often the case that students who have 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 mathe matics 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 A Concrete Approach to Abstract Algebra Jeffrey Bergen, 2009-12-28 A Concrete Approach to Abstract Algebra presents a solid and highly accessible introduction to abstract algebra by providing details on the building blocks of abstract algebra It begins with a concrete and thorough examination of familiar objects such as integers rational numbers real numbers complex numbers complex conjugation and polynomials The author then builds upon these familiar objects and uses them to introduce and motivate advanced concepts in algebra in a manner that is easier to understand for most students Exercises provide a balanced blend of difficulty levels while the quantity allows the instructor a latitude of choices The final four chapters present the more theoretical material needed for graduate study This text will be of particular interest to teachers and future teachers as it links abstract algebra to many topics which arise in courses in algebra geometry trigonometry precalculus and calculus Presents a more natural rings first approach to effectively leading the student into the abstract material of the course by the use of motivating concepts from previous math courses to guide the discussion of abstract algebra Bridges the gap for students by showing

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Abstract Algebra Celine Carstensen, Benjamin Fine, Gerhard Rosenberger, 2011-02-28 A new approach to conveying abstract algebra the area that studies algebraic structures such as groups rings fields modules vector spaces and algebras that is essential to various scientific disciplines such as particle physics and cryptology. It provides a well written account of the theoretical foundations also contains topics that cannot be found elsewhere and also offers a chapter on cryptography End of chapter problems help readers with accessing the subjects This work is co published with the Heldermann Verlag and within Heldermann's Sigma Series in Mathematics

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