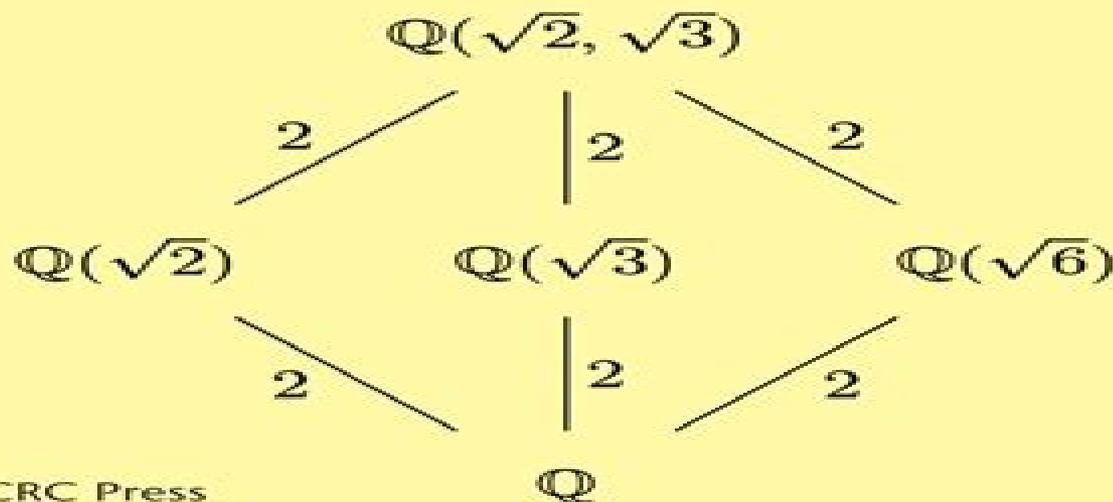


# ABSTRACT ALGEBRA

An Inquiry-Based Approach

SECOND EDITION

Jonathan K. Hodge  
 Steven Schlicker  
 Ted Sundstrom



# Abstract Algebra An Inquiry Based Approach Textbooks In Mathematics

**AW Chickering**



## **Abstract Algebra An Inquiry Based Approach Textbooks In Mathematics:**

Abstract Algebra Jonathan K. Hodge, Steven Schlicker, Ted Sundstrom, 2023-12-19 Abstract Algebra An Inquiry Based Approach Second Edition not only teaches abstract algebra but also provides a deeper understanding of what mathematics is how it is done and how mathematicians think The second edition of this unique flexible approach builds on the success of the first edition The authors offer an emphasis on active learning helping students learn algebra by gradually building both their intuition and their ability to write coherent proofs in context The goals for this text include Allowing the flexibility to begin the course with either groups or rings Introducing the ideas behind definitions and theorems to help students develop intuition Helping students understand how mathematics is done Students will experiment through examples make conjectures and then refine or prove their conjectures Assisting students in developing their abilities to effectively communicate mathematical ideas Actively involving students in realizing each of these goals through in class and out of class activities common in class intellectual experiences and challenging problem sets Changes in the Second Edition Streamlining of introductory material with a quicker transition to the material on rings and groups New investigations on extensions of fields and Galois theory New exercises added and some sections reworked for clarity More online Special Topics investigations and additional Appendices including new appendices on other methods of proof and complex roots of unity Encouraging students to do mathematics and be more than passive learners this text shows students the way mathematics is developed is often different than how it is presented definitions theorems and proofs do not simply appear fully formed mathematical ideas are highly interconnected and in abstract algebra there is a considerable amount of intuition to be found

Student Solutions Manual for Gallian's Contemporary Abstract Algebra Joseph A. Gallian, 2021-06-14 Whereas many partial solutions and sketches for the odd numbered exercises appear in the book the Student Solutions Manual written by the author has comprehensive solutions for all odd numbered exercises and large number of even numbered exercises This Manual also offers many alternative solutions to those appearing in the text These will provide the student with a better understanding of the material This is the only available student solutions manual prepared by the author of Contemporary Abstract Algebra Tenth Edition and is designed to supplement that text Table of Contents Integers and Equivalence Relations 0 Preliminaries Groups 1 Introduction to Groups 2 Groups 3 Finite Groups Subgroups 4 Cyclic Groups 5 Permutation Groups 6 Isomorphisms 7 Cosets and Lagrange's Theorem 8 External Direct Products 9 Normal Subgroups and Factor Groups 10 Group Homomorphisms 11 Fundamental Theorem of Finite Abelian Groups Rings 12 Introduction to Rings 13 Integral Domains 14 Ideals and Factor Rings 15 Ring Homomorphisms 16 Polynomial Rings 17 Factorization of Polynomials 18 Divisibility in Integral Domains Fields 19 Extension Fields 20 Algebraic Extensions 21 Finite Fields 22 Geometric Constructions Special Topics 23 Sylow Theorems 24 Finite Simple Groups 25 Generators and Relations 26 Symmetry Groups 27 Symmetry and Counting 28 Cayley Digraphs of Groups 29 Introduction to Algebraic Coding Theory 30 An Introduction to

Galois Theory 31 Cyclotomic Extensions Biography Joseph A Gallian earned his PhD from Notre Dame In addition to receiving numerous national awards for his teaching and exposition he has served terms as the Second Vice President and the President of the MAA He has served on 40 national committees chairing ten of them He has published over 100 articles and authored six books Numerous articles about his work have appeared in the national news outlets including the New York Times the Washington Post the Boston Globe and Newsweek among many others

### **An Invitation to Abstract Algebra**

Steven J. Rosenberg, 2021-12-21 Studying abstract algebra can be an adventure of awe inspiring discovery The subject need not be watered down nor should it be presented as if all students will become mathematics instructors This is a beautiful profound and useful field which is part of the shared language of many areas both within and outside of mathematics To begin this journey of discovery some experience with mathematical reasoning is beneficial This text takes a fairly rigorous approach to its subject and expects the reader to understand and create proofs as well as examples throughout The book follows a single arc starting from humble beginnings with arithmetic and high school algebra gradually introducing abstract structures and concepts and culminating with Niels Henrik Abel and Evariste Galois achievement in understanding how we can and cannot represent the roots of polynomials The mathematically experienced reader may recognize a bias toward commutative algebra and fondness for number theory The presentation includes the following features Exercises are designed to support and extend the material in the chapter as well as prepare for the succeeding chapters The text can be used for a one two or three term course Each new topic is motivated with a question A collection of projects appears in Chapter 23 Abstract algebra is indeed a deep subject it can transform not only the way one thinks about mathematics but the way that one thinks period This book is offered as a manual to a new way of thinking The author s aim is to instill the desire to understand the material to encourage more discovery and to develop an appreciation of the subject for its own sake

**An Introduction to Number Theory with Cryptography** James Kraft, Lawrence Washington, 2018-01-29 Building on the success of the first edition An Introduction to Number Theory with Cryptography Second Edition increases coverage of the popular and important topic of cryptography integrating it with traditional topics in number theory The authors have written the text in an engaging style to reflect number theory s increasing popularity The book is designed to be used by sophomore junior and senior undergraduates but it is also accessible to advanced high school students and is appropriate for independent study It includes a few more advanced topics for students who wish to explore beyond the traditional curriculum Features of the second edition include Over 800 exercises projects and computer explorations Increased coverage of cryptography including Vigenere Stream Transposition and Block ciphers along with RSA and discrete log based systems Check Your Understanding questions for instant feedback to students New Appendices on What is a proof and on Matrices Select basic pre RSA cryptography now placed in an earlier chapter so that the topic can be covered right after the basic material on congruences Answers and hints for odd numbered problems About the Authors Jim Kraft received his Ph D from

the University of Maryland in 1987 and has published several research papers in algebraic number theory His previous teaching positions include the University of Rochester St Mary s College of California and Ithaca College and he has also worked in communications security Dr Kraft currently teaches mathematics at the Gilman School Larry Washington received his Ph D from Princeton University in 1974 and has published extensively in number theory including books on cryptography with Wade Trappe cyclotomic fields and elliptic curves Dr Washington is currently Professor of Mathematics and Distinguished Scholar Teacher at the University of Maryland

**A Course in Abstract Harmonic Analysis** Gerald B. Folland,2016-02-03 A Course in Abstract Harmonic Analysis is an introduction to that part of analysis on locally compact groups that can be done with minimal assumptions on the nature of the group As a generalization of classical Fourier analysis this abstract theory creates a foundation for a great deal of modern analysis and it contains a number of elegant results

*Elementary Differential Equations* Kenneth Kuttler,2017-11-20 *Elementary Differential Equations* presents the standard material in a first course on differential equations including all standard methods which have been a part of the subject since the time of Newton and the Bernoulli brothers The emphasis in this book is on theory and methods and differential equations as a part of analysis Differential equations is worth studying rather than merely some recipes to be used in physical science The text gives substantial emphasis to methods which are generally presented first with theoretical considerations following Essentially all proofs of the theorems used are included making the book more useful as a reference The book mentions the main computer algebra systems yet the emphasis is placed on MATLAB and numerical methods which include graphing the solutions and obtaining tables of values Featured applications are easily understood Complete explanations of the mathematics and emphasis on methods for finding solutions are included

**A Concrete Introduction to Real Analysis** Robert Carlson,2017-11-28 A Concrete Introduction to Analysis Second Edition offers a major reorganization of the previous edition with the goal of making it a much more comprehensive and accessible for students The standard austere approach to teaching modern mathematics with its emphasis on formal proofs can be challenging and discouraging for many students To remedy this situation the new edition is more rewarding and inviting Students benefit from the text by gaining a solid foundational knowledge of analysis which they can use in their fields of study and chosen professions The new edition capitalizes on the trend to combine topics from a traditional transition to proofs course with a first course on analysis Like the first edition the text is appropriate for a one or two semester introductory analysis or real analysis course The choice of topics and level of coverage is suitable for mathematics majors future teachers and students studying engineering or other fields requiring a solid working knowledge of undergraduate mathematics Key highlights Offers integration of transition topics to assist with the necessary background for analysis Can be used for either a one or a two semester course Explores how ideas of analysis appear in a broader context Provides as major reorganization of the first edition Includes solutions at the end of the book

**Introduction to Analysis** Corey M. Dunn,2017-06-26 Introduction to

Analysis is an ideal text for a one semester course on analysis The book covers standard material on the real numbers sequences continuity differentiation and series and includes an introduction to proof The author has endeavored to write this book entirely from the student s perspective there is enough rigor to challenge even the best students in the class but also enough explanation and detail to meet the needs of a struggling student From the Author to the student I vividly recall sitting in an Analysis class and asking myself What is all of this for or I don t have any idea what s going on This book is designed to help the student who finds themselves asking the same sorts of questions but will also challenge the brightest students Chapter 1 is a basic introduction to logic and proofs Informal summaries of the idea of proof provided before each result and before a solution to a practice problem Every chapter begins with a short summary followed by a brief abstract of each section Each section ends with a concise and referenced summary of the material which is designed to give the student a big picture idea of each section There is a brief and non technical summary of the goals of a proof or solution for each of the results and practice problems in this book which are clearly marked as Idea of proof or as Methodology followed by a clearly marked formal proof or solution Many references to previous definitions and results A Troubleshooting Guide appears at the end of each chapter that answers common questions

*Applied Differential Equations with Boundary Value Problems*  
Vladimir Dobrushkin, 2017-10-19 Applied Differential Equations with Boundary Value Problems presents a contemporary treatment of ordinary differential equations ODEs and an introduction to partial differential equations PDEs including their applications in engineering and the sciences This new edition of the author s popular textbook adds coverage of boundary value problems The text covers traditional material along with novel approaches to mathematical modeling that harness the capabilities of numerical algorithms and popular computer software packages It contains practical techniques for solving the equations as well as corresponding codes for numerical solvers Many examples and exercises help students master effective solution techniques including reliable numerical approximations This book describes differential equations in the context of applications and presents the main techniques needed for modeling and systems analysis It teaches students how to formulate a mathematical model solve differential equations analytically and numerically analyze them qualitatively and interpret the results

*Exploring the Infinite* Jennifer Brooks, 2016-11-30 Exploring the Infinite addresses the trend toward a combined transition course and introduction to analysis course It guides the reader through the processes of abstraction and logical argumentation to make the transition from student of mathematics to practitioner of mathematics This requires more than knowledge of the definitions of mathematical structures elementary logic and standard proof techniques The student focused on only these will develop little more than the ability to identify a number of proof templates and to apply them in predictable ways to standard problems This book aims to do something more it aims to help readers learn to explore mathematical situations to make conjectures and only then to apply methods of proof Practitioners of mathematics must do all of these things The chapters of this text are divided into two parts Part I serves as an introduction to proof and abstract

mathematics and aims to prepare the reader for advanced course work in all areas of mathematics It thus includes all the standard material from a transition to proof course Part II constitutes an introduction to the basic concepts of analysis including limits of sequences of real numbers and of functions infinite series the structure of the real line and continuous functions Features Two part text for the combined transition and analysis course New approach focuses on exploration and creative thought Emphasizes the limit and sequences Introduces programming skills to explore concepts in analysis Emphasis in on developing mathematical thought Exploration problems expand more traditional exercise sets **Transition to Analysis with Proof** Steven Krantz,2017-11-09 Transition to Real Analysis with Proof provides undergraduate students with an introduction to analysis including an introduction to proof The text combines the topics covered in a transition course to lead into a first course on analysis This combined approach allows instructors to teach a single course where two were offered The text opens with an introduction to basic logic and set theory setting students up to succeed in the study of analysis Each section is followed by graduated exercises that both guide and challenge students The author includes examples and illustrations that appeal to the visual side of analysis The accessible structure of the book makes it an ideal reference for later years of study or professional work Combines the author s previous works Elements of Advanced Mathematics with Foundations of Analysis Combines logic set theory and other elements with a one semester introduction to analysis Author is a well known mathematics educator and researcher Targets a trend to combine two courses into one

Discovering Abstract Algebra John K. Osoinach, Jr.,2021-10-04 Discovering Abstract Algebra takes an Inquiry Based Learning approach to the subject leading students to discover for themselves its main themes and techniques Concepts are introduced conversationally through extensive examples and student investigation before being formally defined Students will develop skills in carefully making statements and writing proofs while they simultaneously build a sense of ownership over the ideas and results The book has been extensively tested and reinforced at points of common student misunderstanding or confusion and includes a wealth of exercises at a variety of levels The contents were deliberately organized to follow the recommendations of the MAA s 2015 Curriculum Guide The book is ideal for a one or two semester course in abstract algebra and will prepare students well for graduate level study in algebra *Abstract Algebra* William Paulsen,2016-02-10 The new edition of Abstract Algebra An Interactive Approach presents a hands on and traditional approach to learning groups rings and fields It then goes further to offer optional technology use to create opportunities for interactive learning and computer use This new edition offers a more traditional approach offering additional topics to the primary syllabus placed after primary topics are covered This creates a more natural flow to the order of the subjects presented This edition is transformed by historical notes and better explanations of why topics are covered This innovative textbook shows how students can better grasp difficult algebraic concepts through the use of computer programs It encourages students to experiment with various applications of abstract algebra thereby obtaining a real world perspective

of this area Each chapter includes corresponding Sage notebooks traditional exercises and several interactive computer problems that utilize Sage and Mathematica to explore groups rings fields and additional topics This text does not sacrifice mathematical rigor It covers classical proofs such as Abel s theorem as well as many topics not found in most standard introductory texts The author explores semi direct products polycyclic groups Rubik s Cube like puzzles and Wedderburn s theorem The author also incorporates problem sequences that allow students to delve into interesting topics including Fermat s two square theorem

*Abstract Algebra* Joseph H. Silverman,2022-03-07 This abstract algebra textbook takes an integrated approach that highlights the similarities of fundamental algebraic structures among a number of topics The book begins by introducing groups rings vector spaces and fields emphasizing examples definitions homomorphisms and proofs The goal is to explain how all of the constructions fit into 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* William Paulsen,2009-07-29 By integrating the use of GAP and Mathematica *Abstract Algebra An Interactive Approach* presents a hands on approach to learning about groups rings and fields Each chapter includes both GAP and Mathematica commands corresponding Mathematica notebooks traditional exercises and several interactive computer problems that utilize GAP and Mathematica to explore groups and rings Although the book gives the option to use technology in the classroom it does not sacrifice mathematical rigor It covers classical proofs such as Abel s theorem as well as many graduate level topics not found in most standard introductory texts The author explores semi direct products polycyclic groups Rubik s Cube like puzzles and Wedderburn s theorem He also incorporates problem sequences that allow students to delve into interesting topics in depth including Fermat s two square theorem This innovative textbook shows how students can better grasp difficult algebraic concepts through the use of computer programs It encourages students to experiment with various applications of abstract algebra thereby obtaining a real world perspective of this area

*Forthcoming Books* Rose Arny,1996-10 **American Book Publishing Record**

**Cumulative, 1950-1977: Title index** R.R. Bowker Company. Department of Bibliography,1978 *Abstract Algebra* Laura L. Dos Reis,Anthony J. Dos Reis,2017-03-18 Learning abstract algebra is not hard It is not like getting to know the deep forest its trails streams lakes flora and fauna It takes time effort and a willingness to venture into new territory It is a task that cannot be done overnight But with a good guide this book it should be an exciting excursion with perhaps only a few bumps along the way Students even students who have done very well in calculus often have trouble with abstract algebra

Our objective in writing this book is to make abstract algebra as accessible as elementary calculus and we hope a real joy to study. Our textbook has three advantages over the standard abstract algebra textbook. First it covers all the foundational concepts needed for abstract algebra; the only prerequisite for this book is high school algebra. Second it is easier to read and understand so it is ideal for self learners. Third it gets the reader to think mathematically and to do mathematics to experiment, make conjectures and prove theorems while reading the book. The result is not only a better learning experience but also a more enjoyable one.

from back cover *Cooperation in Education* Shlomo Sharan, 1980

**Abstract Algebra: An Introduction** Thomas Hungerford, 2012-07-27

Abstract Algebra: An Introduction is set apart by its thematic development and organization. The chapters are organized around two themes: arithmetic and congruence. Each theme is developed first for the integers, then for polynomials, and finally for rings and groups. This enables students to see where many abstract concepts come from, why they are important, and how they relate to one another. New to this edition is a groups first option that enables those who prefer to cover groups before rings to do so easily.

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