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A Course in Abstract Algebra, 5th Edition-Khanna V.K. & Bhamri S.K 2016 Designed for undergraduate and postgraduate students of mathematics, the book can also be used by those preparing for various competitive examinations. The text starts with a brief introduction to results from Set theory and Number theory. It then goes on to cover Groups, Rings, Fields and Linear Algebra. The topics under groups include subgroups, finitely generated abelian groups, group actions, solvable and nilpotent groups. The course in ring theory covers ideals, embedding of rings, Euclidean domains, PIDs, UFDs, polynomial rings, Noetherian (Artinian) rings. Topics of field include algebraic extensions, splitting fields, normal extensions, separable extensions, algebraically closed fields, Galois extensions, and construction by ruler and compass. The portion on linear algebra deals with vector spaces, linear transformations, Eigen spaces, diagonalizable operators, inner product spaces, dual spaces, operators on inner product spaces etc. The theory has been strongly supported by numerous examples and worked-out problems. There is also plenty of scope for the readers to try and solve problems on their own.New in this Edition• A full section on operators in inner product spaces.• Complete survey of finite groups of order up to 15 and Wedderburn theorem on finite division rings.• Addition of around one hundred new worked-out problems and examples.• Alternate and simpler proofs of some results.• A new section on quick recall of various useful results at the end of the book to facilitate the reader to get instant answers to tricky questions.

A Course in Abstract Algebra-Vijay K. Khanna 1998-01-01

A Course In Abstract Algebra, 3E-Vijay K. Khanna 2009-11 Designed For Undergraduate And Post Graduate Students Of Mathematics, The Book Can Also Be Used By Those Preparing For Various Competitive Examinations. The Text Starts With A Brief Introduction To Results From Set Theory And Number Theory. It Then Goes O

A Book of Abstract Algebra-Charles C Pinter 2010-01-14 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.

Business Mathematics-Qazi Zameeruddin 1980

Abstract Algebra-W. E. Deskins 2012-05-24 Excellent textbook provides undergraduates with an accessible introduction to the basic concepts of abstract algebra and to the analysis of abstract algebraic systems. Features many examples and problems.

A First Course in Abstract Algebra-John B. Fraleigh 2013-07-23 Considered a classic by many, A First Course in Abstract Algebra is an in-depth introduction to abstract algebra. Focused on groups, rings and fields, this text gives students a firm foundation for more specialized work by emphasizing an understanding of the nature of algebraic structures.

The Iron Thorn-Caitlin Kittredge 2011 In an alternate 1950s, mechanically gifted fifteen-year-old Aoife Grayson, whose family has a history of going mad at sixteen, must leave the totalitarian city of Lovecraft and venture into the world of magic to solve the mystery of her brother's disappearance and the mysteries surrounding her father and the Land of Thorn.

Basic Abstract Algebra-P. B. Bhattacharya 1994-11-25 This book provides a complete abstract algebra course, enabling instructors to select the topics for use in individual classes.

A Course in Algebra-Ėrnest Borisovich Vinberg 2003 Great book! The author's teaching experinece shows in every chapter. --Efim Zelmanov, University of California, San Diego Vinberg has written an algebra book that is excellent, both as a classroom text or for self-study. It is plain that years of teaching abstract algebra have enabled him to say the right thing at the right time. --Irving Kaplansky, MSRI This is a comprehensive text on modern algebra written for advanced undergraduate and basic graduate algebra classes. The book is based on courses taught by the author at the Mechanics and Mathematics Department of Moscow State University and at the Mathematical College of the Independent University of Moscow. The unique feature of the book is that it contains almost no technically difficult proofs. Following his point of view on mathematics, the author tried, whenever possible, to replace calculations and difficult deductions with conceptual proofs and to associate geometric images to algebraic objects. Another important feature is that the book presents most of the topics on several levels, allowing the student to move smoothly from initial acquaintance to thorough study and deeper understanding of the subject. Presented are basic topics in algebra such as algebraic structures, linear algebra, polynomials, groups, as well as more advanced topics like affine and projective spaces, tensor algebra, Galois theory, Lie groups, associative algebras and their representations. Some applications of linear algebra and group theory to physics are discussed. Written with extreme care and supplied with more than 200 exercises and 70 figures, the book is also an excellent text for independent study.

Abstract Algebra-Thomas W Judson 2019-08

Algebra: Abstract and Concrete-Frederick M. Goodman Presents information on the book "Algebra: Abstract and Concrete," by Frederick M. Goodman. Includes the table of contents, images from the text, and some 3D graphics adapted from the book. Contains images of summetry axes of the cube, symmetry axes of the tetrahedron, and tetrahedra imbedded in a cube. Provides a summary of the book.

Abstract Algebra-Dan Saracino 1992 The simplicity of the language, the organization of the ideas, and the conciseness with completeness are this books main strengths as it introduces abstract algebra. It plunges directly into algebraic structures and incorporates an unusually large number of examples to clarify abstract concepts as they arise. Theorem proofs do more than just prove the stated results, they are examined so readers can gain a better impression of where the proofs come from and why they proceed as they do. Most of the exercises range from easy to moderately difficult and ask for understanding of ideas rather than flashes of insight.

Family and Civilization-Carle C. Zimmerman 2014-04-22 Family and Civilization is the magnum opus of Carle Zimmerman, a distinguished sociologist who taught for many years at Harvard University. In this unjustly forgotten work Zimmerman demonstrates the close and causal connections between the rise and fall of different types of families and the rise and fall of civilizations, particularly ancient Greece and Rome, medieval and modern Europe, and the United States. Zimmerman traces the evolution of family structure from tribes and clans to extended and large nuclear families to the small nuclear families and broken families of today. And he shows the consequences of each structure for the bearing and rearing of children; for religion, law, and everyday life; and for the fate of civilization itself. Originally published in 1947, this compelling analysis predicted many of today’s cultural and social controversies and trends, including youth violence and depression, abortion and homosexuality, the demographic collapse of Europe and of the West more generally, and the displacement of peoples. This new edition, part of ISI Books’ Background series, has been edited and abridged by cultural commentator James Kurth of Swarthmore College and includes essays on the text by Kurth, Allan Carlson, and Bryce Christensen.

LINEAR ALGEBRA-S. KUMARESAN 2000-01-01 This clear, concise and highly readable text is designed for a first course in linear algebra and is intended for undergraduate courses in mathematics. It focusses throughout on geometric explanations to make the student perceive that linear algebra is nothing but analytic geometry of n dimensions. From the very start, linear algebra is presented as an extension of the theory of simultaneous linear equations and their geometric interpretation is shown to be a recurring theme of the subject. The integration of abstract algebraic concepts with the underlying geometric notions is one of the most distinguishing features of this book — designed to help students in the pursuit of multivariable calculus and differential geometry in subsequent courses.Explanations and concepts are logically presented in a conversational tone and well-constructed writing style so that students at a variety of levels can understand the material and acquire a solid foundation in the basic skills of linear algebra.

Mathematical Analysis-S. C. Malik 1992 The Book Is Intended To Serve As A Text In Analysis By The Honours And Post-Graduate Students Of The Various Universities. Professional Or Those Preparing For Competitive Examinations Will Also Find This Book Useful.The Book Discusses The Theory From Its Very Beginning. The Foundations Have Been Laid Very Carefully And The Treatment Is Rigorous And On Modem Lines. It Opens With A Brief Outline Of The Essential Properties Of Rational Numbers And Using Dedekinds Cut, The Properties Of Real Numbers Are Established. This Foundation Supports The Subsequent Chapters: Topological Frame Work Real Sequences And Series, Continuity Differentiation, Functions Of Several Variables, Elementary And Implicit Functions, Riemann And Riemann-Stieltjes Integrals, Lebesgue Integrals, Surface, Double And Triple Integrals Are Discussed In Detail. Uniform Convergence, Power Series, Fourier Series, Improper Integrals Have Been Presented In As Simple And Lucid Manner As Possible And Fairly Large Number Solved Examples To Illustrate Various Types Have Been Introduced.As Per Need, In The Present Set Up, A Chapter On Metric Spaces Discussing Completeness, Compactness And Connectedness Of The Spaces Has Been Added. Finally Two Appendices Discussing Beta-Gamma Functions, And Cantors Theory Of Real Numbers Add Glory To The Contents Of The Book.

Abstract Algebra-I. N. Herstein 1990

Elements of Real Anyalsis-M.D.Raisinghania 2003-06-01 This book is an attempt to make presentation of Elements of Real Analysis more lucid. The book contains examples and exercises meant to help a proper understanding of the text. For B.A., B.Sc. and Honours (Mathematics and Physics), M.A. and M.Sc. (Mathematics) students of various Universities/ Institutions.As per UGC Model Curriculum and for I.A.S. and Various other competitive exams.

Basic Abstract Algebra-Robert B. Ash 2013-06-17 Relations between groups and sets, results and methods of abstract algebra in terms of number theory and geometry, and noncommutative and homological algebra. Solutions. 2006 edition.

A History of Abstract Algebra-Jeremy Gray 2018-09-08 This textbook provides an accessible account of the history of abstract algebra, tracing a range of topics in modern algebra and number theory back to their modest presence in the seventeenth and eighteenth centuries, and exploring the impact of ideas on the development of the subject. Beginning with Gauss’s theory of numbers and Galois’s ideas, the book progresses to Dedekind and Kronecker, Jordan and Klein, Steinitz, Hilbert, and Emmy Noether. Approaching mathematical topics from a historical perspective, the author explores quadratic forms, quadratic reciprocity, Fermat’s Last Theorem, cyclotomy, quintic equations, Galois theory, commutative rings, abstract fields, ideal theory, invariant theory, and group theory. Readers will learn what Galois accomplished, how difficult the proofs of his theorems were, and how important Camille Jordan and Felix Klein were in the eventual acceptance of Galois’s approach to the solution of equations. The book also describes the relationship between Kummer’s ideal numbers and Dedekind’s ideals, and discusses why Dedekind felt his solution to the divisor problem was better than Kummer’s. Designed for a course in the history of modern algebra, this book is aimed at undergraduate students with an introductory background in algebra but will also appeal to researchers with a general interest in the topic. With exercises at the end of each chapter and appendices providing material difficult to find elsewhere, this book is self-contained and therefore suitable for self-study.

Higher Algebra: Abstract And Linear (revised Ninth Edition)-S.K. Mapa 2003

Abstract Algebra, 2Nd Ed-David S. Dummit 2008-07-28 · Group Theory · Ring Theory · Modules and Vector Spaces · Field Theory and Galois Theory · An Introduction to Commutative Rings, Algebraic Geometry, and Homological Algebra· Introduction to the Representation Theory of Finite Groups

Introduction to Abstract Algebra-W. Keith Nicholson 2012-03-20 Praise for the Third Edition ". . . an expository masterpiece of the highest didactic value that has gained additional attractivity through the various improvements . . ."—Zentralblatt MATH The Fourth Edition of Introduction to Abstract Algebra continues to provide an accessible approach to the basic structures of abstract algebra: groups, rings, and fields. The book's unique presentation helps readers advance to abstract theory by presenting concrete examples of induction, number theory, integers modulo n, and permutations before the abstract structures are defined. Readers can immediately begin to perform computations using abstract concepts that are developed in greater detail later in the text. The Fourth Edition features important concepts as well as specialized topics, including: The treatment of nilpotent groups, including the Frattini and Fitting subgroups Symmetric polynomials The proof of the fundamental theorem of algebra using symmetric polynomials The proof of Wedderburn's theorem on finite division rings The proof of the Wedderburn-Artin theorem Throughout the book, worked examples and real-world problems illustrate concepts and their applications, facilitating a complete understanding for readers regardless of their background in mathematics. A wealth of computational and theoretical exercises, ranging from basic to complex, allows readers to test their comprehension of the material. In addition, detailed historical notes and biographies of mathematicians provide context for and illuminate the discussion of key topics. A solutions manual is also available for readers who would like access to partial solutions to the book's exercises. Introduction to Abstract Algebra, Fourth Edition is an excellent book for courses on the topic at the upper-undergraduate and beginning-graduate levels. The book also serves as a valuable reference and self-study tool for practitioners in the fields of engineering, computer science, and applied mathematics.

Elements of Modern Algebra, International Edition-Linda Gilbert 2008-11-01 ELEMENTS OF MODERN ALGEBRA, 7e, INTERNATIONAL EDITION with its user-friendly format, provides you with the tools you need to get succeed in abstract algebra and develop mathematical maturity as a bridge to higher-level mathematics courses.. Strategy boxes give you guidance and explanations about techniques and enable you to become more proficient at constructing proofs. A summary of key words and phrases at the end of each chapter help you master the material. A reference section, symbolic marginal notes, an appendix, and numerous examples help you develop your problem solving skills.

Ordinary and Partial Differential Equations-M.D.Raisinghania 2013 This book has been designed for Undergraduate (Honours) and Postgraduate students of various Indian Universities.A set of objective problems has been provided at the end of each chapter which will be useful to the aspirants of competitve examinations

Introduction to Abstract Algebra-Benjamin Fine 2014-07-01 This textbook will help bring about the day when abstract algebra no longer creates intense anxiety but instead challenges students to fully grasp the meaning and power of the approach. Topics covered include:; Rings; Integral domains; The fundamental theorem of arithmetic; Fields; Groups; Lagrange's theorem; Isomorphism theorems for groups; Fundamental theorem of finite abelian groups; The simplicity of An for n5; Sylow theorems; The Jordan-Hölder theorem; Ring isomorphism theorems; Euclidean domains; Principal ideal domains; The fundamental theorem of algebra; Vector spaces; Algebras; Field extensions: algebraic and transcendental; The fundamental theorem of Galois theory; The insolvability of the quintic

Schaum's Outline of Theory and Problems of Linear Algebra-Seymour Lipschutz 2001 • This third edition of the successful outline in linear algebra—which sold more than 400,000 copies in its past two editions—has been thoroughly updated to increase its applicability to the fields in which linear algebra is now essential: computer science, engineering, mathematics, physics, and quantitative analysis• Revised coverage includes new problems relevant to computer science and a revised chapter on linear equations• More than 100,000 students enroll in beginning and advanced Linear Algebra courses each year. This outline is appropriate for both first- and second-level linear algebra courses

Series Modern Algebra-A. K. Vashisth 2008

A Primer of Abstract Mathematics-Robert B. Ash 2020-03-02 The purpose of this book is to prepare the reader for coping with abstract mathematics. The intended audience is both students taking a first course in abstract algebra who feel the need to strengthen their background and those from a more applied background who need some experience in dealing with abstract ideas. Learning any area of abstract mathematics requires not only ability to write formally but also to think intuitively about what is going on and to describe that process clearly and cogently in ordinary English. Ash tries to aid intuition by keeping proofs short and as informal as possible and using concrete examples as illustration. Thus, it is an ideal textbook for an audience with limited experience in formalism and abstraction. A number of expository innovations are included, for example, an informal development of set theory which teaches students all the basic results for algebra in one chapter.

A Course of Mathematical Analysis-Shanti Narayan | PK Mittal 1962 A Course of Mathematical Analysis

Topics in Algebra-I. N. Herstein 1976

A Course on Group Theory-John S. Rose 2013-05-27 Text for advanced courses in group theory focuses on finite groups, with emphasis on group actions. Explores normal and arithmetical structures of groups as well as applications. 679 exercises. 1978 edition.

Advanced Differential Calculus-A.K. Sharma 2010 Contents: Change of Independent Variables, Maxima and Minima (Of Functions of a Single Independent Variable), Maxima and Minima (Of Functions of Two Independent Variable), Maxima and Minima (Of Function of Several Independent Variable), Envelopes and Evolutes, Jacobians, Singular Points, Curve Tracing.

Objective Genetics, Biotechnology, Biochemistry and Forestry-Vijay K. Khanna 2008-01-01 The present book has been designed to serve the students of Plant Breeding, Genetics, Biotechnology, Biochemistry and Forestry. In most of the books, the objective type questions judge the students on the basis of their ability to memorize, because of the way they are formulated. It is important to be able to remember the year of historical events, the scientists involved and who named what to make one remember the landmark contributions of the people on a particular subject. Along with these kinds of questions, majority of the questions in this book have been designed to assess the candidate's understanding of the subject. It is perhaps for the first time where questions have four to six choice statements, which are to be understood to find the right answer. One has to think and remember what he has learnt to be able to answer these questions. There are some books on objective type questions on the subject of Plant Breeding and a very few on Genetics but there is hardly any book, which deals with Tissue Culture, Biotechnology, Biochemistry or Forestry. All these subjects are related as many postgraduate students of Genetics and Plant Breeding take Biotechnology as a minor subject whereas those of Biotechnology take Biochemistry or Genetics and Plant Breeding as a minor subject. Also, undergraduates in agricultural universities study courses on all these subjects including Forestry

First Course in Abstract Algebra, A: Pearson New International Edition-John B. Fraleigh 2013-08-29 Considered a classic by many, A First Course in Abstract Algebra is an in-depth introduction to abstract algebra. Focused on groups, rings and fields, this text gives students a firm foundation for more specialized work by emphasizing an understanding of the nature of algebraic structures.

Principles of Real Analysis-S. C. Malik 2008-01-01

Modern Algebra - Eighth Edition-Qazi Zameeruddin 2009-11 For More Than Thirty Years Modern Algebra Has Served The Student Community As A Textbook For Introductory Courses On The Subject. The Book Starts From Set Theory And Covers An Advanced Course In Group Theory And Ring Theory. A Detailed Study Of Field Theo

Solutions Manual to accompany Introduction to Abstract Algebra, 4e, Solutions Manual-W. Keith Nicholson 2012-04-11 An indispensable companion to the book hailed an "expository masterpiece of the highest didactic value" by Zentralblatt MATH This solutions manual helps readers test and reinforce the understanding of the principles and real-world applications of abstract algebra gained from their reading of the critically acclaimed Introduction to Abstract Algebra. Ideal for students, as well as engineers, computer scientists, and applied mathematicians interested in the subject, it provides a wealth of concrete examples of induction, number theory, integers modulo n, and permutations. Worked examples and real-world problems help ensure a complete understanding of the subject, regardless of a reader's background in mathematics.

Solutions Manual for Lang’s Linear Algebra-Rami Shakarchi 2012-12-06 This solutions manual for Lang’s Undergraduate Analysis provides worked-out solutions for all problems in the text. They include enough detail so that a student can fill in the intervening details between any pair of steps.

Advanced Differential Equations, 19e-Raisinghania M.D. 2018 This book has been designed to acquaint the students with advanced concepts of differential equations. Comprehensively written, it covers topics such as Boundary Value Problems and their Separation of Variables, Laplace Transforms with Applications, Fourier Transforms and their Applications, the Hankel Transform and its Applications and Calculus of Variations. While the textbook lucidly explains the theoretical concepts, it also presents the various methods and applications related to differential equations. Students of mathematics would find this book extremely useful as well as the aspirants of various competitive examinations.