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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

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

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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

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essentials of abstract algebra offers a deep exploration into the fundamental structures of algebraic systems authored by esteemed mathematicians this comprehensive guide covers groups rings fields and vector spaces unraveling their intricate properties and interconnections we introduce groups exploring their

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