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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

covering the main fields of mathematics this handbook focuses on the methods used for obtaining solutions of various classes of mathematical equations that underlie the mathematical modeling of numerous phenomena and processes in science and technology the authors describe formulas methods equations and solutions that are frequently used in scientific and engineering applications and present classical as well as newer solution methods for various mathematical equations the book supplies numerous examples graphs figures and diagrams and contains many results in tabular form including finite sums and series and exact solutions of differential integral and functional equations

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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elementary differential equations and boundary value problems like its predecessors is written from the viewpoint of the applied mathematician whose interest in differential equations may sometimes be quite theoretical sometimes intensely practical and often somewhere in between the authors have sought to combine a sound and accurate but not abstract exposition of the elementary theory of differential equations with considerable material on methods of solution analysis and approximation that have proved useful in a wide variety of applications while the general structure of the book remains unchanged some notable changes have been made to improve the clarity and readability of basic material about differential equations and their applications in addition to expanded explanations the 11th edition includes new problems updated figures

and examples to help motivate students the program is primarily intended for undergraduate students of mathematics science or engineering who typically take a course on differential equations during their first or second year of study the main prerequisite for engaging with the program is a working knowledge of calculus gained from a normal two or three semester course sequence or its equivalent some familiarity with matrices will also be helpful in the chapters on systems of differential equations

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