



Abstract Algebra: An Interactive Approach (Textbooks in Mathematics)

William Paulsen

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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.

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