A First Course in Abstract Algebra: Rings, Groups, and Fields, Third Edition

Marlow Anderson, Todd Feil

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Like its popular predecessors, **A First Course in Abstract Algebra: Rings, Groups, and Fields, Third Edition** develops ring theory first by drawing on students' familiarity with integers and polynomials. This unique approach motivates students in the study of abstract algebra and helps them understand the power of abstraction. The authors introduce groups later on using examples of symmetries of figures in the plane and space as well as permutations.

New to the Third Edition

- Makes it easier to teach unique factorization as an optional topic
- Reorganizes the core material on rings, integral domains, and fields
- Includes a more detailed treatment of permutations
- Introduces more topics in group theory, including new chapters on Sylow theorems
- Provides many new exercises on Galois theory

The text includes straightforward exercises within each chapter for students to quickly verify facts, warm-up exercises following the chapter that test fundamental comprehension, and regular exercises concluding the chapter that consist of computational and supply-the-proof problems. Historical remarks discuss the history of algebra to underscore certain pedagogical points. Each section also provides a synopsis that presents important definitions and theorems, allowing students to verify the major topics from the section.

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