



# A First Course in Abstract Algebra (3rd Edition)

*Joseph J. Rotman*

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This text introduces readers to the algebraic concepts of group and rings, providing a comprehensive discussion of theory as well as a significant number of applications for each.

**Number Theory:** Induction; Binomial Coefficients; Greatest Common Divisors; The Fundamental Theorem of Arithmetic

Congruences; Dates and Days. **Groups I:** Some Set Theory; Permutations; Groups; Subgroups and Lagrange's Theorem; Homomorphisms; Quotient Groups; Group Actions; Counting with Groups.

**Commutative Rings I:** First Properties; Fields; Polynomials; Homomorphisms; Greatest Common Divisors; Unique Factorization; Irreducibility; Quotient Rings and Finite Fields; Officers, Magic, Fertilizer, and Horizons. **Linear Algebra:** Vector Spaces; Euclidean Constructions; Linear Transformations; Determinants; Codes; Canonical Forms. **Fields:** Classical Formulas; Insolvability of the General Quintic; Epilog. **Groups II:** Finite Abelian Groups; The Sylow Theorems; Ornamental Symmetry. **Commutative Rings III:** Prime Ideals and Maximal Ideals; Unique Factorization; Noetherian Rings; Varieties; Grobner Bases.

For all readers interested in abstract algebra.

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