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Fundamentals of Number Theory

By William Judson Leveque

Dover Publications Inc., United States, 1996. Paperback. Book Condition: New. New edition. 203 x 142 mm. Language: English . Brand New Book. This excellent textbook introduces the basics of number theory, incorporating the language of abstract algebra. A knowledge of such algebraic concepts as group, ring, field, and domain is not assumed, however; all terms are defined and examples are given -- making the book self-contained in this respect. The author begins with an introductory chapter on number theory and its early history. Subsequent chapters deal with unique factorization and the GCD, quadratic residues, number-theoretic functions and the distribution of primes, sums of squares, quadratic equations and quadratic fields, diophantine approximation, and more. Included are discussions of topics not always found in introductory texts: factorization and primality of large integers, p -adic numbers, algebraic number fields, Brun s theorem on twin primes, and the transcendence of e, to mention a few. Readers will find a substantial number of well-chosen problems, along with many notes and bibliographical references selected for readability and relevance. Five helpful appendixes -- containing such study aids as a factor table, computer-plotted graphs, a table of indices, the Greek alphabet, and a list of symbols -- and...



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