



Introduction to Number Theory, 2nd Edition (Textbooks in Mathematics)

Anthony Vazzana, David Garth

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Introduction to Number Theory is a classroom-tested, student-friendly text that covers a diverse array of number theory topics, from the ancient Euclidean algorithm for finding the greatest common divisor of two integers to recent developments such as cryptography, the theory of elliptic curves, and the negative solution of Hilbert's tenth problem. The authors illustrate the connections between number theory and other areas of mathematics, including algebra, analysis, and combinatorics. They also describe applications of number theory to real-world problems, such as congruences in the ISBN system, modular arithmetic and Euler's theorem in RSA encryption, and quadratic residues in the construction of tournaments.

Ideal for a one- or two-semester undergraduate-level course, this **Second Edition**:

- Features a more flexible structure that offers a greater range of options for course design
- Adds new sections on the representations of integers and the Chinese remainder theorem
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