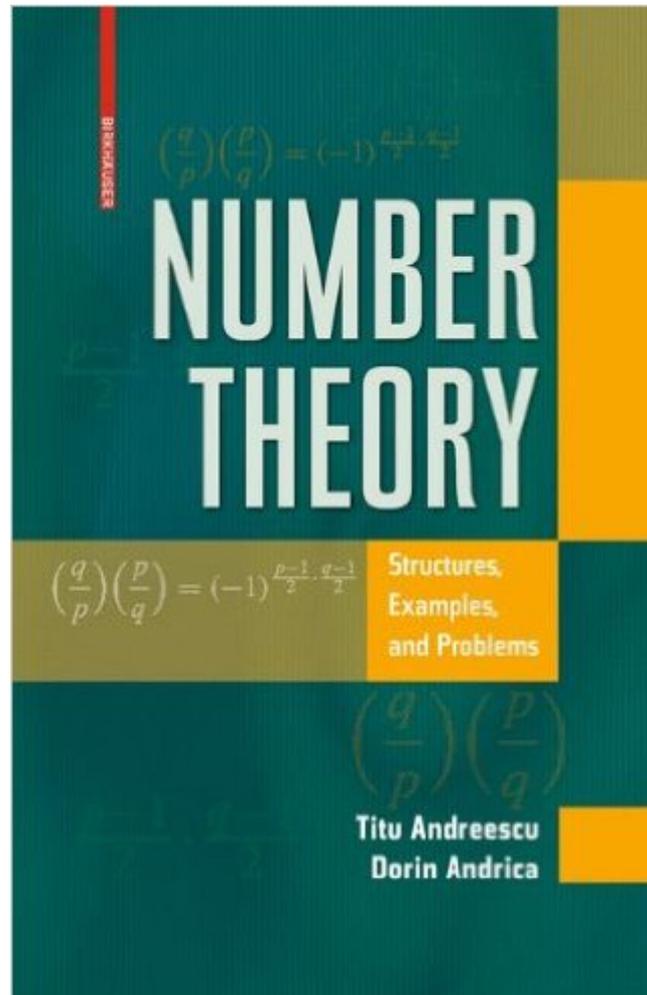# Number Theory: Structures, Examples, And Problems

Synopsis

This introductory textbook takes a problem-solving approach to number theory, situating each concept within the framework of an example or a problem for solving. Starting with the essentials, the text covers divisibility, unique factorization, modular arithmetic and the Chinese Remainder Theorem, Diophantine equations, binomial coefficients, Fermat and Mersenne primes and other special numbers, and special sequences. Included are sections on mathematical induction and the pigeonhole principle, as well as a discussion of other number systems. By emphasizing examples and applications the authors motivate and engage readers.

Book Information

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Customer Reviews

It's perfect to prefare math olympiad contest. It contains fundamental conceptsof elementary number theory and practical problems of math contests with originalsolutions.

It's not a book for beginners in number theory, it's perfect for people who're interest in study for mathematical olympiads and those who're interest in study deeper number theory. It's a fantastic book, like most books of titu and Dorin Andrica, i recomend !

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