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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Fundamentals -- Divisibility -- Greatest common divisors -- Congruences -- Congruence applications -- Systems of linear congruences -- Three classical milestones -- Multiplicative functions -- Cryptology -- Primitive roots and indices -- Quadratic congruences -- Continued fractions -- Miscellaneous nonlinear diophantine equations.
Sommario/riassunto	This second edition updates the well-regarded 2001 publication with new short sections on topics like Catalan numbers and their relationship to Pascal's triangle and Mersenne numbers, Pollard rho factorization method, Hoggatt-Hensell identity. Koshy has added a new chapter on continued fractions. The unique features of the first edition like news of recent discoveries, biographical sketches of mathematicians, and applications--like the use of congruence in scheduling of a round-robin tournament--are being refreshed with current information. More challenging exercises are included both in the t