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Autore	McLeman Cam
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Nota di contenuto	<p>Intro -- Preface -- Who is This Text's Audience? -- To the Student: -- To the Instructor: -- Suggested Pacing and Content Coverage --</p> <p>Contents -- 1 What is a Number? -- 1.1 Human conception of numbers -- 1.2 Algebraic Number Systems -- 1.3 New Numbers, New Worlds -- 1.4 Exercises -- 2 A Quick Survey of the Last Two Millennia -- 2.1 Fermat, Wiles, and The Father of Algebra -- 2.2 Quadratic Equations -- 2.3 Diophantine Equations -- 2.4 Exercises -- 3 Number Theory in Z Beginning -- 3.1 Algebraic Structures -- 3.2 Linear Diophantine Equations and the Euclidean Algorithm -- 3.3 The Fundamental Theorem of Arithmetic -- 3.4 Factors and Factorials -- 3.5 The Prime Archipelago -- 3.6 Exercises -- 4 Number Theory in the Mod-n Era -- 4.1 Equivalence Relations and the Binary World -- 4.2 The Ring of Integers Modulo n -- 4.3 Reduce First and ask Questions Later -- 4.4 Division, Exponentiation, and Factorials in Zn -- 4.5 Group Theory and the Ring of Integers Modulo n -- 4.6 Lagrange's Theorem and the Euler Totient Function -- 4.7 Sunzi's Remainder Theorem and phi(n) -- 4.8 Phis, Polynomials, and Primitive Roots -- 4.9 Exercises -- 5 Gaussian Number Theory: Zi of the Storm -- 5.1 The Calm Before -- 5.2 Gaussian Divisibility -- 5.3 Gaussian Modular Arithmetic -- 5.4 Gaussian Division Algorithm: The Geometry of Numbers -- 5.5 A Gausso-Euclidean Algorithm -- 5.6 Gaussian Primes and Prime</p>

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