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Nota di contenuto	Front Cover -- Geometric Inequalities -- Copyright Page -- CONTENTS -- Preface -- Chapter 1. Arithmetic and Geometric Means -- 1.1 Fundamentals -- 1.2 The Theorem of Arithmetic and Geometric Means -- Chapter 2. Isoperimetric Theorems -- 2.1 Maxima and minima -- 2.2 Isoperimetric theorems for triangles -- 2.3 Isoperimetric theorems for polygons -- 2.4 Steiner's attempt -- Chapter 3. The Reflection Principle -- 3.1 Symmetry -- 3.2 Dido's problem -- 3.3 Steiner symmetrization -- 3.4 Conic sections -- 3.5 Triangles -- Chapter 4. Hints and Solutions -- Index of Numbered Theorems -- Back Cover.
Sommario/riassunto	Anybody who liked their first geometry course (and some who did not) will enjoy the simply stated geometric problems about maximum and minimum lengths and areas in this book. Many of these already fascinated the Greeks, for example, the problem of enclosing the largest possible area by a fence of given length, and some were solved long ago; but others remain unsolved even today. Some of the solutions of the problems posed in this book, for example the problem of inscribing a triangle of smallest perimeter into a given triangle, were supplied by world famous mathematicians, other by high school students.