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Sommario/riassunto	Leonhard Euler (1707-1783) was born in Basel, Switzerland. Euler's formula is a mathematical formula in complex analysis that establishes the fundamental relationship between the trigonometric functions and the complex exponential function. When its variable is the number π , Euler's formula evaluates to Euler's identity. On the other hand, the Yang-Baxter equation is considered the most beautiful equation by many scholars. In this book, we study connections between Euler's formulas and the Yang-Baxter equation. Other interesting sections include: non-associative algebras with metagroup relations; branching functions for admissible representations of affine Lie Algebras; super-Virasoro algebras; dual numbers; UJLA structures; etc.