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	Autore	Saccoman, Andrea
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2.	Record Nr.	UNINA9910300108503321
	Autore	Wony Jacek
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Nota di contenuto

1. Introduction -- 2. The Theoretical Framework and the Subject of Study -- 3. Sets -- 4. Mappings -- 5. Groups -- 6. Rings, Fields, and Vector Spaces -- 7. Summary and Conclusion -- Sources. .

Sommario/riassunto

This volume examines mathematics as a product of the human mind and analyzes the language of "pure mathematics" from various advanced-level sources. Through analysis of the foundational texts of mathematics, it is demonstrated that math is a complex literary creation, containing objects, actors, actions, projection, prediction, planning, explanation, evaluation, roles, image schemas, metonymy, conceptual blending, and, of course, (natural) language. The book follows the narrative of mathematics in a typical order of presentation for a standard university-level algebra course, beginning with analysis of set theory and mappings and continuing along a path of increasing complexity. At each stage, primary concepts, axioms, definitions, and proofs will be examined in an effort to unfold the tell-tale traces of the basic human cognitive patterns of story and conceptual blending. This book will be of interest to mathematicians, teachers of mathematics, cognitive scientists, cognitive linguists, and anyone interested in the engaging question of how mathematics works and why it works so well.
