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Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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Sommario/riassunto	<p>Provides a smooth and pleasant transition from first-year calculus to upper-level mathematics courses in real analysis, abstract algebra and number theory Most universities require students majoring in mathematics to take a “transition to higher math” course that introduces mathematical proofs and more rigorous thinking. Such courses help students be prepared for higher-level mathematics course from their onset. Advanced Mathematics: A Transitional Reference provides a “crash course” in beginning pure mathematics, offering instruction on a blend of inductive and deductive reasoning. By avoiding outdated methods and countless pages of theorems and proofs, this innovative textbook prompts students to think about the ideas presented in an enjoyable, constructive setting. Clear and concise chapters cover all the essential topics students need to transition from the "rote-orientated" courses of calculus to the more rigorous "proof-orientated" advanced mathematics courses. Topics include sentential and predicate calculus, mathematical induction, sets and counting, complex numbers, point-set topology, and symmetries, abstract groups, rings, and fields. Each section contains numerous problems for students of various interests and abilities. Ideally suited for a one-semester course, this book: Introduces students to mathematical proofs and rigorous thinking Provides thoroughly class-tested material</p>

from the authors own course in transitioning to higher math  
Strengthens the mathematical thought process of the reader Includes  
informative sidebars, historical notes, and plentiful graphics Offers a  
companion website to access a supplemental solutions manual for  
instructors Advanced Mathematics: A Transitional Reference is a  
valuable guide for undergraduate students who have taken courses in  
calculus, differential equations, or linear algebra, but may not be  
prepared for the more advanced courses of real analysis, abstract  
algebra, and number theory that await them. This text is also useful for  
scientists, engineers, and others seeking to refresh their skills in  
advanced math.

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