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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1. Modeling -- 2. Impractical optimization -- 3. Basic practical optimization -- 4. Some practical modifications -- 5. How methods are ranked -- 6. Constraints -- 7. More practical modifications -- 8. Integer variables -- 9. Other methods.
Sommario/riassunto	This textbook provides undergraduate students with an introduction to optimization and its uses for relevant and realistic problems. The only prerequisite for readers is a basic understanding of multivariable calculus because additional materials, such as explanations of matrix tools, are provided in a series of Asides both throughout the text at relevant points and in a handy appendix.