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Autore	Kulkarni Anand J
Titolo	Optimization Methods and Algorithms / / by Anand J. Kulkarni
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ISBN	981-9691-94-X
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (176 pages)
Collana	Engineering Series
Disciplina	620
Soggetti	Engineering mathematics Engineering - Data processing Mathematical optimization Computational intelligence Mathematical and Computational Engineering Applications Optimization Computational Intelligence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1 Introduction to Optimization -- Chapter 2 Single Variable Optimization Methods -- Chapter 3 Multi Variable Optimization Methods -- Chapter 4 Graphical Optimization -- Chapter 5 Linear Programming Methods -- Chapter 6 Nature inspired Optimization Methods.
Sommario/riassunto	The book thoroughly explains fundamental optimization concepts and terminology, including variables, parameters, constraints, bounds, and convexity. It also demonstrates how to formulate optimization problems using illustrative examples. Covering both single-variable and multi-variable optimization methods, the book provides theoretical insights, practical examples, and exercises, along with a graphical approach to problem-solving. In light of growing concerns about resource limitations and environmental impacts, this textbook addresses the need for efficient resource use amidst technological advancements and market competition. Students will appreciate the comprehensive coverage, supported by illustrations and exercises that deepen their understanding. Instructors will find it invaluable for classroom teaching, with accessible concepts and practical examples

that highlight the nuances of optimization.
