1. Record Nr.	UNINA9910451439403321
Autore	Floudas Christodoulos A
Titolo	Nonlinear and mixed-integer optimization [[electronic resource]] : fundamentals and applications / / Christodoulos A. Floudas
Pubbl/distr/stampa	New York, : Oxford University Press, c1995
ISBN	0-19-756094-6
	1-280-96564-9
	9786610965649
	0-19-535655-1
Descrizione fisica	1 online resource (475 p.)
Collana	Topics in chemical engineering
Disciplina	660/.28/015193
Soggetti	Chemical engineering - Mathematical models
	Integer programming
	Mathematical optimization
	Nonlinear theories
	Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Previously issued in print: 1995.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Contents; 1. Introduction; PART 1 FUNDAMENTALS OF CONVEX ANALYSIS AND NONLINEAR OPTIMIZATION; PART 2 FUNDAMENTALS OF MIXED-INTEGER OPTIMIZATION; PART 3 APPLICATIONS IN PROCESS SYNTHESIS; Bibliography; Index
Sommario/riassunto	This volume presents the fundamentals of nonlinear and mixed-integer optimisation, and their applications in the important area of process synthesis in chemical engineering. Topics that are unique include the theory and methods for mixed-integer nonlinear optimisation, introduction to modelling issues in process synthesis, and optimisation-based approaches in the synthesis of heat recovery systems, distillation-based systems, and reactor-based systems.