1.	Record Nr.	UNINA9910450792503321
	Titolo	Computer aided methods in optimal design and operations [[electronic resource] /] / editors, I. D. L. Bogle, J. Zilinskas
	Pubbl/distr/stampa	Singapore ; ; Hackensack, NJ, : World Scientific Publishing, c2006
	ISBN	1-281-37325-7
		9786611373252
		981-277-295-2
	Descrizione fisica	1 online resource (238 p.)
	Collana	Series on computers and operations research ; ; v. 7
	Altri autori (Persone)	BogleI. D. L (Ian David Lockhart)
		ZilinskasJ <1973-> (Julius)
	Disciplina	620/.00420285
	Soggetti	Computer-aided design
		Mathematical optimization
		Control theory
		Chemical engineering - Mathematical models
		Electronic books.
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	"Containing papers presented at the bilateral workshop by British and Lithuanian scientists, the book brings together researchers' contributions from different fields--chemical engineering including reaction and separation processes, food and biological production, as well as business cycle optimization, bankruptcy, protein analysis and bioinformatics"--P. [4] of cover.
	Nota di bibliografia	Includes bibliographical references.
	Nota di contenuto	Contents ; Preface ; Hybrid Methods for Optimisation ; 1. Introduction ; 2. Hybrid Methods for Optimisation ; 3. Embedded Hybrid Methods ; 4. Sequential Hybrid Methods ; 5. Illustrative Case Study ; 6. Discussion ; References ; An MILP Model for Multi-class Data Classification ; 1. Introduction 2. Problem Statement and Mathematical Formulation 3. Testing Procedure ; 4. An Iterative Solution Algorithm ; 5. Computational Results ; 6. Conclusions ; References ; Implementation of Parallel Optimization Algorithms Using Generalized Branch and

Bound Template
; 1. Introduction
2. General Branch and Bound Algorithm   3.
BB Algorithm Template   ; 4. Conclusions
; References   ; Application of Stochastic Approximation in
Technical Design   ; 1.
Introduction   ; 2. Formulation of the Optimization Problem
; 3. Computer Modelling
4. Application of Order Statistic to Optimality Testing
5. Computer Modelling   ; 6. Conclusion   ;
References   ; Application of the Monte-Carlo Method to
Stochastic Linear Programming
; 1. Introduction   ; 2. Stochastic Differentiation and
Monte-Carlo Estimators
3. Stochastic Procedure for Optimisation
4. Statistical Testing of the Optimality Hypothesis
; 5. Computer Study   ; 6. Discussion and Conclusions
; References   ; Studying the Rate of Convergence of the
Steepest Descent Optimisation Algorithm with Relaxation
; 1. Introduction
2. The General Quadratic Case

Sommario/riassunto	This book covers different topics on optimal design and operations with particular emphasis on chemical engineering applications. A wide range of optimization methods - deterministic, stochastic, global and hybrid - are considered. Containing papers presented at the bilateral workshop by British and Lithuanian scientists, the book brings together researchers' contributions from different fields - chemical engineering including reaction and separation processes, food and biological production, as well as business cycle optimization, bankruptcy, protein analysis and bioinformatics. <i>Sample

2. Record Nr.   UNINA9910625194003321

    Titolo   .. International Conference Laser Optics

    Pubbl/distr/stampa   [Piscataway, NJ] : , : [IEEE]

    Disciplina   621.366

    Soggetti   Lasers
                            Quantum optics
                            Conference papers and proceedings.

    Lingua di pubblicazione Inglese

    Formato   Materiale a stampa

    Livello bibliografico   Periodico