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   Autore   Liu, Xiaochun

   Titolo   Boundary Value Problems with Global Projection Conditions / Xiaochun Liu, Bert-Wolfgang Schulze

   Pubbl/distr/stampa   Cham, : Birkhäuser, 2018

   Titolo uniforme   Boundary Value Problems with Global Projection Conditions

   Descrizione fisica   xvi, 410 p. : ill. ; 24 cm

   Altri autori (Persone)   Schulze, Bert-Wolfgang

   Soggetti   35S15 - Boundary value problems for PDEs with pseudodifferential operators [MSC 2020]
                        58J20 - Index theory and related fixed point theorems on manifolds [MSC 2020]

   Lingua di pubblicazione   Inglese

   Formato   Materiale a stampa

   Livello bibliografico   Monografia

2.	Record Nr.	UNINA9910484730803321
	Titolo	Mathematical Modelling and Optimization of Engineering Problems / / edited by J. A. Tenreiro Machado, Necati Özdemir, Dumitru Baleanu
	Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
	ISBN	3-030-37062-3
	Edizione	[1st ed. 2020.]
	Descrizione fisica	1 online resource (VIII, 202 p. 76 illus.)
	Collana	Nonlinear Systems and Complexity, , 2195-9994 ; ; 30
	Disciplina	620.00151
	Soggetti	Mathematical physics
		Engineering mathematics
		Mathematical models
		Mathematical optimization
		Computer science - Mathematics
		Mathematical Applications in the Physical Sciences
		Engineering Mathematics
		Mathematical Modeling and Industrial Mathematics
		Optimization
		Computational Science and Engineering
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di bibliografia	Includes bibliographical references and index.
	Nota di contenuto	Chapter 1. Heuristic Techniques for Real-time Order Acceptance and Scheduling in Metal Additive Manufacturing -- Chapter 2. Developing A Nationwide Energy Storage Policy by Optimal Size and Site Selection -- Chapter 3. Pontryagin's Principle for a Class of Discrete Time Infinite-horizon Optimal Growth Problems -- Chapter 4. A Medical Modelling Using Multiple Linear Regression -- Chapter 5. Lie group method solution for two-dimensional heat and viscous flow driven by injection through a deformable rectangular channel with porous walls -- Chapter 6. Optimal siting of wind turbines in a windfarm -- Chapter 7. RSM-based Optimization of Excitation Capacitance and Speed for a Self-Excited Induction Generator -- Chapter 8. Distance Constrained Vehicle Routing Problems: A Case Study using Artificial Bee Colony Algorithm -- Chapter 9. Fractional model for type 1 diabetes --

Chapter 10. Mathematical Modelling and Additive Manufacturing of a Gyroid.

Sommario/riassunto	This book presents recent developments in modelling and optimization of engineering systems and the use of advanced mathematical methods for solving complex real-world problems. It provides recent theoretical developments and new techniques based on control, optimization theory, mathematical modeling and fractional calculus that can be used to model and understand complex behavior in natural phenomena including latest technologies such as additive manufacturing. Specific topics covered in detail include combinatorial optimization, flow and heat transfer, mathematical modelling, energy storage and management policy, artificial intelligence, optimal control, modelling and optimization of manufacturing systems. Presents new approaches to design and optimize emerging manufacturing systems Examines the similarities between design and optimization processes Explains metaheuristics applied to complex engineering problems Features sections on optimization in the energy storage and generation and optimal control in economics and operational research.