1. Record Nr. UNINA9910271043603321

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Titolo	Process modeling and simulation for chemical engineers : theory and practice / / Simant Ranjan Upreti
Pubbl/distr/stampa	Chichester, West Sussex, England : , : Wiley, , 2017 ©2017
ISBN	1-118-91466-X 1-5231-1476-2 1-118-91465-1 1-118-91467-8
Descrizione fisica	1 online resource (364 pages)
Disciplina	660/.284401
Soggetti	Chemical processes - Mathematical models Chemical processes - Data processing Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Fundamental relations -- Constitutive relations -- Model formulation -- Model transformation -- Model simplification and approximation -- Process simulation -- Mathematical review.

2. Record Nr. UNINA9911053037303321

Titolo	Advances in Machine Learning and Mathematical Modeling for Optimization Problems
Pubbl/distr/stampa	MDPI - Multidisciplinary Digital Publishing Institute, 2023
Descrizione fisica	1 online resource (280 p.)
Soggetti	Mathematics & science Research & information: general
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Machine learning and deep learning have made tremendous progress over the last decade and have become the de facto standard across a wide range of image, video, text, and sound processing domains, from object recognition to image generation. Recently, deep learning and deep reinforcement learning have begun to develop end-to-end training to solve more complex operation research and combinatorial optimization problems, such as covering problems, vehicle routing problems, traveling salesman problems, scheduling problems, and other complex problems requiring general simulations. These methods also sometimes include classic search and optimization algorithms for machine learning, such as Monte Carlo Tree Search in AlphaGO. The present reprint contains all of the articles accepted and published in the Special Issue of Mathematics entitled "Advances in Machine Learning and Mathematical Modeling for Optimization Problems". The articles presented in this Special Issue provide insights into related fields, including models, performance evaluation and improvements, and application developments. We hope that readers will benefit from the insights of these papers and contribute to these rapidly growing areas. We also hope that this Special Issue will shed light on major developments in the area of machine learning and mathematical modeling for optimization problems and that it will attract the attention

of the scientific community to pursue further investigations, leading to the rapid implementation of these techniques.