

TECHNOLOGY & ENGINEERING

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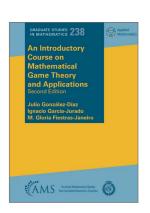
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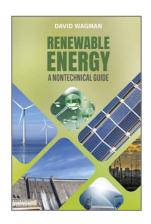
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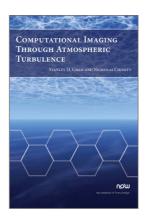
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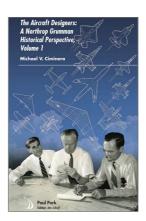
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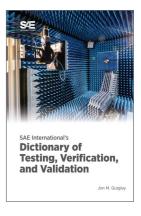
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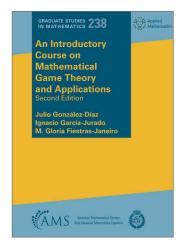
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APPLIED MATHEMATICS





AN INTRODUCTORY COURSE ON MATHEMATICAL GAME THEORY AND APPLICATIONS



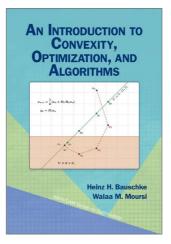
Second Edition

Julio González-Díaz, Ignacio García-Jurado & M. Gloria Fiestras-Janeiro Graduate Studies in Mathematics. Vol. 238

Game theory provides a mathematical setting for analyzing competition and cooperation in interactive situations. The theory has been famously applied in economics, but is relevant in many other sciences, such as psychology, computer science, artificial intelligence, biology, and political science. This book presents an introductory and up-to-date course on game theory addressed to mathematicians and economists, and to other scientists with a basic mathematical background.

In this second edition, the content on cooperative games is considerably strengthened, with a new chapter on applications of cooperative games and operations research, including some material on computational aspects and applications outside academia.

Jan 2024 415pp 9781470467968 Hardback £118.00 / €135.00 American Mathematical Society





AN INTRODUCTION TO CONVEXITY, OPTIMIZATION, AND ALGORITHMS



Heinz H. Bauschke & Walaa M. Moursi

MOS-SIAM Series on Optimization, Vol. 34

This concise, self-contained volume introduces convex analysis and optimization algorithms, with an emphasis on bridging the two areas. It explores cutting-edge algorithms – such as the proximal gradient, Douglas–Rachford, Peaceman–Rachford, and FISTA - that have applications in machine learning, signal processing, image reconstruction, and other fields.

An Introduction to Convexity, Optimization, and Algorithms contains:

- · Algorithms illustrated by Julia examples.
- More than 200 exercises that enhance the reader's understanding of the topic.
- Clear explanations and step-by-step algorithmic descriptions that facilitate self-study for individuals looking to enhance their expertise in convex analysis and optimization.

Jan 2024 186pp

9781611977790 Paperback £60.00 / €68.00

SIAM - Society for Industrial and Applied Mathematics

American Mathematical Society



3D PRINTING IN MATHEMATICS

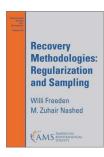
Edited by Maria Trnkova & Andrew Yarmola

Proceedings of Symposia in Applied Mathematics, Vol. 79

Focuses on the process and applications of 3D printing for mathematical education, research. and visualization, and discusses the

challenges and open mathematical problems that arise in the design and algorithmic aspects of 3D printing.

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RECOVERY **METHODOLOGIES: REGULARIZATION** AND SAMPLING

Willi Freeden & M. Zuhair Nashed Mathematical Surveys and Monographs, Vol. 274

Introduces the reader to methodologies in recovery problems for objects, such as functions and

signals, from partial or indirect information. By avoiding extreme technicalities and elaborate proof techniques, this is an accessible resource for students and researchers.

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Arcler Press



and Applications Edited by: Prof. Dr. Zoran Gacovski SAP ARCLER

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FUZZY SYSTEMS AND APPLICATIONS

Edited by Zoran Gacovski

Fuzzy systems have largely replaced conventional technologies in a large number of scientific applications and engineering systems. This book covers different topics from fuzzy systems and applications, including fuzzy sets theory, fuzzy-based expert

systems, fuzzy control systems and fuzzy applications in different domains.

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THEORY AND APPLICATIONS OF THE **GENERATING FUNCTIONS**

Pure Mathematics and Applied Science Edited by Stefano Spezia

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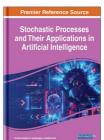
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DATA-DRIVEN MATHEMATICAL MODELING **IN SMART CITIES**

Edited by Sabyasachi Pramanik & K. Martin Sagayam

Discusses new mathematical models in smart and sustainable cities using big data, visualization tools in mathematical modeling, machine learning-based mathematical modeling, and more. The book also delves into privacy and ethics in data analysis, and covers topics such as deep learning, optimization-based data science, and smart city automation.

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STOCHASTIC PROCESSES **AND THEIR APPLICATIONS** IN ARTIFICIAL **INTELLIGENCE**

Edited by Christo Ananth. N. Anbazhagan & Mark Goh

Opens doors for artificial intelligence experts to use stochastic processes as an effective tool in real-world

problems in computational biology, speech recognition, natural language processing, and reinforcement learning. The book covers a range of key topics, including social media, big data, and artificial intelligence models.

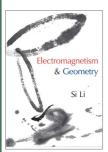
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CLASSICAL MECHANICS AND GEOMETRY

Si Li

Based upon the first in a series of lecture notes written by the author for his courses in mathematical physics at Qiuzhen College of Tsinghua University, Beijing. This book explains the key physical elements of Lagrangian and Hamiltonian mechanics, and their relationship to modern developments in geometry. Heavy emphasis is placed on different faces of concrete examples that illustrate the bridge between mathematics and physics.

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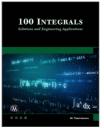
ELECTROMAGNETISM & GEOMETRY

Si Li

The essence of this book is to explain both the physical and the geometric aspects of modern electromagnetism, as well as the bridge between these two viewpoints. The first part of this book explains key ingredients

of electromagnetic fields and their classical dynamics. The second part explains Maxwell theory in terms of the geometry of U(1) fiber bundle. The language of differential forms throughout this book is used to illustrate the geometric and topological natures of Maxwell's equations.

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100 INTEGRALS

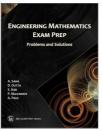
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Mehrzad Tabatabaian

Contains a collection of integrals, some more challenging than others, with their worked-out solutions as indefinite integrals. The integrals were randomly selected, modified,

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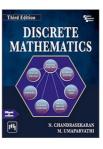
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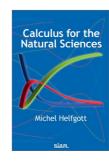
Third Edition

N. Chandrasekaran & M. Umaparvathi

Written with a strong pedagogical focus, this third edition provides an exhaustive presentation of the fundamental concepts of discrete mathematical structures and their applications in computer science and mathematics.

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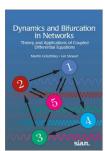
CALCULUS FOR THE NATURAL SCIENCES



Michel Helfgott

In this textbook on calculus of one variable, applications to the natural sciences play a central role. Examples from biology, chemistry, and physics are discussed in detail without compromising the discussion of the mathematics essential to differential and integral calculus.

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DYNAMICS AND BIFURCATION IN NETWORKS

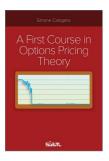
Theory and Applications of Coupled Differential Equations

Martin Golubitsky & Ian Stewart

In recent years, there has been an explosion of interest in network-based modeling in many branches

of science. This book synthesizes some of the common features of many such models, providing a general framework analogous to the modern theory of nonlinear dynamical systems.

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A FIRST COURSE IN OPTIONS PRICING THEORY

Simone Calogero

Presents a self-contained introduction to options pricing theory. The book includes a discussion of the required concepts in finance and probability theory; an introduction to basic models; over 200 exercises, Python codes for the analysis of the options

pricing models, and numerical projects to help close the gap between theory and practice.

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INTRODUCTION TO NONLINEAR OPTIMIZATION



Theory, Algorithms, and Applications with Python and MATLAB, Second Edition Amir Beck

MOS-SIAM Series on Optimization, Vol. 32

Built on the framework of the successful first edition, this book serves as a modern introduction to the field of optimization. The author's objective is to provide the foundations of theory and algorithms of nonlinear optimization as well as to present a variety of applications from diverse areas of applied sciences.

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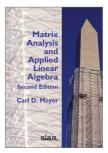
MATHEMATICAL THEORY OF FINITE ELEMENTS

Leszek F. Demkowicz

Computational Science and Engineering, Vol. 28

Discusses the foundations of the mathematical theory of finite element methods. The focus is on the concept of discrete stability and the exact sequence conforming elements and covers both coercive and non-coercive problems.

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MATRIX ANALYSIS AND APPLIED LINEAR ALGEBRA

Second EditionCarl D. Meyer

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increasing the level of sophistication as the text proceeds from traditional first principles in the early chapters to deeper theory and applications in the later ones, and by ensuring that material at any point is not dependent on subsequent developments.

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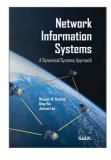
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Jiawang Nie MOS-SIAM Series on Optimization, Vol. 31

Synthesizes current research and applications, providing a systematic introduction to theory and methods, a comprehensive

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Presents a unique treatment of network control systems. Drawing from fundamental principles of dynamical systems theory and dynamical thermodynamics, the

authors develop a continuous-time, discrete-time, and hybrid dynamical system and control framework for linear and nonlinear large-scale network systems.

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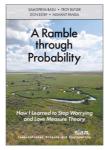
PROBLEMS AND SOLUTIONS FOR INTEGER AND COMBINATORIAL OPTIMIZATION



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The only book offering solved exercises for integer and combinatorial optimization, this contains 102 classroom tested problems of varying scope and difficulty chosen from a plethora of topics and applications. It has an associated website containing additional problems, miscellaneous material including suggested readings, and errata.

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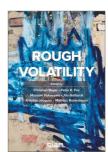
A RAMBLE THROUGH PROBABILITY

How I Learned to Stop Worrying and Love Measure Theory Samopriya Basu et al Computational Science and Engineering, Vol. 29

Brings together the key elements and applications in a unified

presentation aimed at developing intuition; contains an extensive collection of examples that illustrate, explain, and apply the theories; and is supplemented with videos containing commentary and explanations of select proofs on an ancillary website.

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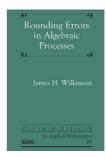
ROUGH VOLATILITY

Edited by Christian Bayer et al Financial Mathematics, Vol. 2

The first book to offer a comprehensive exploration of the subject, Rough Volatility contributes to the understanding and application of rough volatility models by equipping readers with the tools and insights needed to

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polynomials as well as the solution of linear systems, matrix inversion, and eigenvalue computations.

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BIOMEDICAL ENGINEERING & BIOTECHNOLOGY

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A Theological Engagement Edited by Devan Stahl

Whereas the public-facing proponents of bioenhancements tend to come from privileged positions in society, Bioenhancement Technologies and the Vulnerable Body seeks to analyze the nuances

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Provides students and researchers with prior knowledge of the biosciences with a place to begin their studies. The book is an excellent resource that students and young professionals can use in their pursuit of knowledge on this ever-changing topic.

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Tripti Sahu & Satpal S. Bisht

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H.W. Wilson



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Exploring Contemporary Issues with Selected Primary & Secondary Sources H.W. Wilson

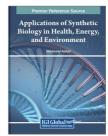
The Reference Shelf®

Examines gene editing and genetic engineering, drawing from periodicals, medical reports,

and politics to see how this debate is progressing within popular culture. Issues investigated include engineering new organisms, the potential for medical breakthroughs, the ethics of altering the human genome, and the campaign to bring back the dinosaurs.

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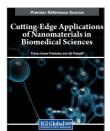
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FUNDAMENTALS OF EPIGENETICS

Gurbachan S. Miglani

Provides concise yet complete information on the many aspects of the basic and most recent concepts in epigenetics, a branch of life science that deals with the mechanisms such as DNA modifications, histone modifications, RNA modifications, small and long non-coding RNAs, and chromatin remodelling.

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BIOTECHNOLOGY

Biosensors, Biomaterials and Tissue Engineering Annual Volume 2023

Edited by Luis Jesús Villarreal-Gómez

Biomedical Engineering, Vol. 20

Biomedical technology is continually changing, and new approaches are being developed daily. Although widely used, conventional solutions are losing efficacy due to the evolution of microorganisms and the environment. Pathologies and diseases negatively affect humans and animals, but nanotechnology appears promising in the diagnosis and treatment of a variety of health conditions. This book examines some of these nanotechnologies, discussing their advantages and limitations.

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Plunkett Research, Ltd.

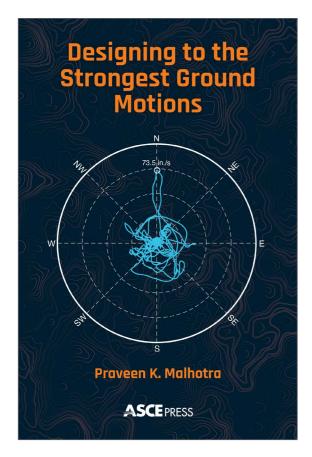


PLUNKETT'S BIOTECH, PHARMACEUTICALS & GENETICS INDUSTRY ALMANAC 2024

Biotech, Pharmaceuticals & Genetics Industry Market Research, Statistics, Trends and Leading Companies Jack W. Plunkett

A complete market research guide to the business of biotechnology, drugs, diagnostics and genetics – for strategic planning, competitive intelligence, employment searches or financial research. Includes in-depth chapters on trends, statistics, research and emerging technology.

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DESIGNING TO THE STRONGEST GROUND MOTIONS

Praveen K. Malhotra

ASCE Press

Determines the strongest ground motions from data, rather than predictions, and discusses the design of structures to withstand the strongest ground motions. Future ground motions are highly uncertain, but the response of structures to future ground motions will not be uncertain if structures are designed to the strongest ground motions. Uncertainty is not an option in the design of structures whose collapse can be catastrophic.

Topics include:

- · Characteristics of collapse-inducing ground motions, including energy-demand and cyclic-demand.
- Strongest ground motions from > 200,000 instrument-year of recorded data worldwide.
- · Comparison between predicted and recorded ground motions.
- Seismic characteristics and analysis of structures, including seismic-toughness and cyclic-capacity.
- · Practical nonlinear analysis of structures.
- Role of aftershocks and number of cycles in seismic design.
- · Collapse-proof, rather than collapse resistant, seismic design.

Through this book, Dr. Malhotra provides valuable insights and new ways of thinking for structural and geotechnical engineers, architects, seismologists, insurers, regulators, educators, and policymakers.

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American Society of Civil Engineers



American Society of Civil Engineers



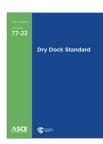
BLAST PROTECTION OF BUILDINGS

American Society of Civil Engineers ASCE/SEI 59-22

Provides minimum requirements for planning, design, construction and assessment of new and existing buildings subject to the effects of accidental or malicious explosions.

The standard includes principles for establishing appropriate threat parameters, levels of protection, loadings, analysis methodologies, materials, detailing and test procedures.

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DRY DOCK STANDARD

American Society of Civil Engineers ASCE/COPRI 77-22

Addresses a deficiency in commercial shipyards, specifically safety certification of dry docking facilities. This standard is intended for use by dry dock owners, Dockmasters, dry dock maintenance

engineers, engineers engaged in dry dock inspection and certification, ship owners, and port engineers.

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SEISMIC EVALUATION AND RETROFIT OF EXISTING BUILDINGS

ASCE/SEI 41-23

Describes deficiency-based and systematic procedures that use performance-based principles to evaluate and retrofit existing buildings to withstand the effects

of earthquakes. The standard presents a three-tiered process for seismic evaluation according to a range of building performance levels by connecting targeted structural performance and the performance of nonstructural components with seismic hazard levels.

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SNOW LOADS

Guide to the Snow Load Provisions of ASCE 7-22
Michael O'Rourke

ASCF Press

Supplies detailed, authoritative explanations of the snow load provisions contained in *Minimum Design Loads and*Associated Criteria for Buildings and Other Structures, Standard ASCE/SEI 7-22. Michael O'Rourke illustrates the key concepts for applying the provisions to the design of structures that could collect falling or drifting snow.

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STANDARD FOR MITIGATION OF DISPROPORTIONATE COLLAPSE POTENTIAL IN BUILDINGS AND OTHER STRUCTURES

American Society of Civil Engineers ASCE/SEI 76-23

Provides a consensus perspective

for mitigating disproportionate collapse. This publication describes minimum requirements for planning, assessment, analysis, material selection, design and detailing, construction, and qualification testing to mitigate disproportionate collapse of new and existing buildings and other structures.

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WIND LOADS

Guide to the Wind Load Provisions of ASCE 7-22 T. Eric Stafford & Timothy A. Reinhold

ASCE Press

Provides a comprehensive overview of the wind load provisions in Minimum Design Loads and Associated Criteria for Buildings and Other Structures. The book foucses on providing direction while using the provisions that affect planning and designing buildings for residential and commercial purposes.

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Book available

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Highlights the latest technologies and applications of AI in structural

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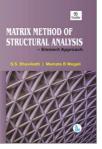
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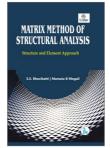
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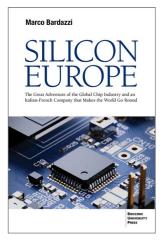
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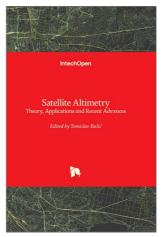
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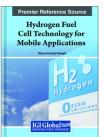
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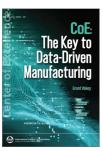
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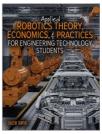


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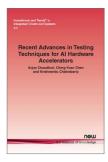
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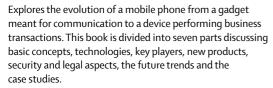
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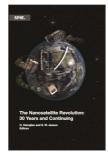
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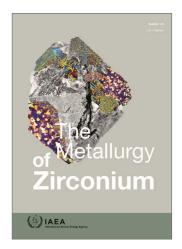
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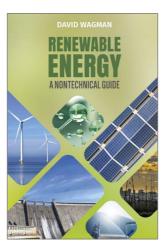


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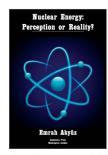
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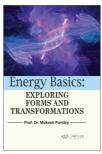
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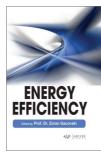
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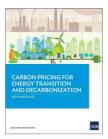
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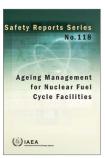
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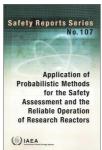
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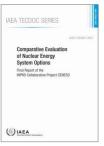
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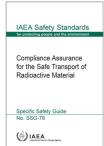
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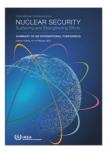
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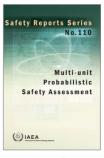
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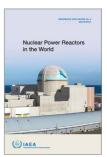
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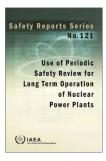
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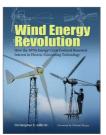
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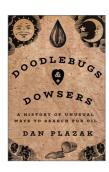
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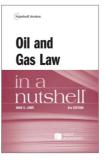
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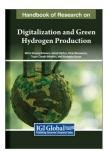
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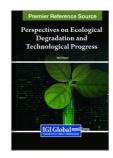
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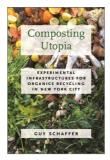
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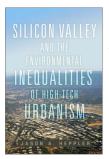
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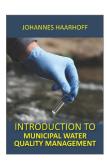
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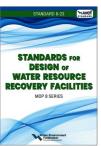
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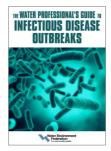


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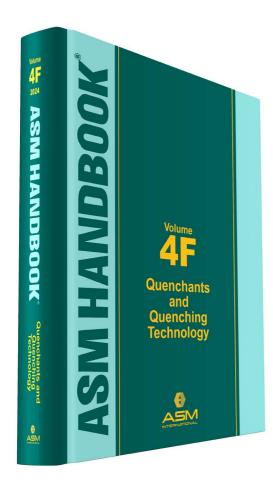
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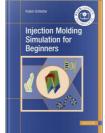
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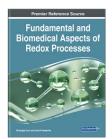
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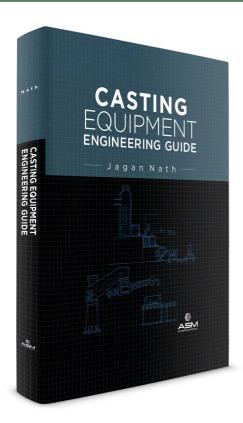
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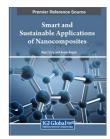


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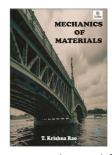
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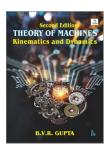
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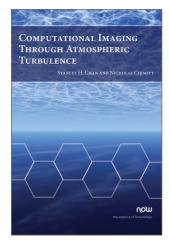
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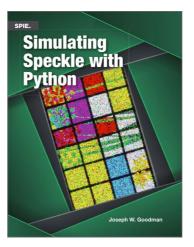
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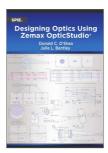
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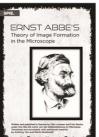
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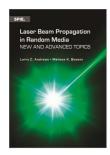
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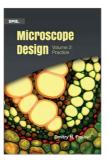
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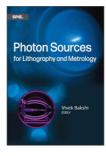
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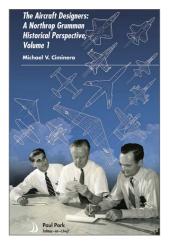
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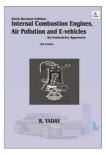


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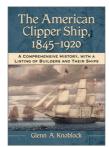


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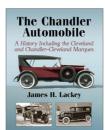
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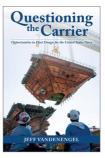
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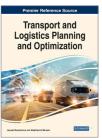
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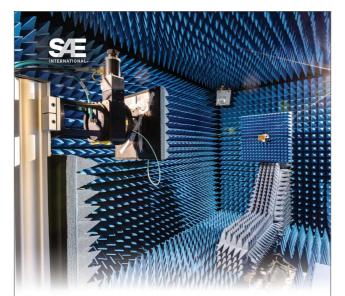
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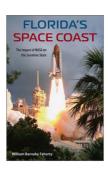
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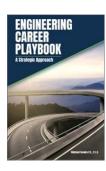
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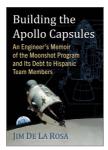
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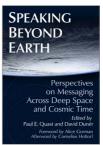
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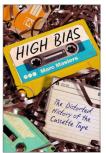
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