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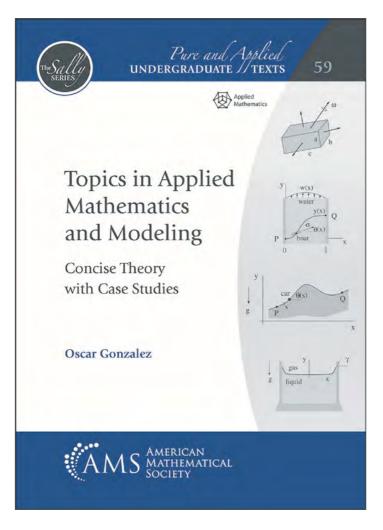
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APPLIED MATHEMATICS



TOPICS IN APPLIED MATHEMATICS AND MODELING



Concise Theory with Case StudiesOscar Gonzalez

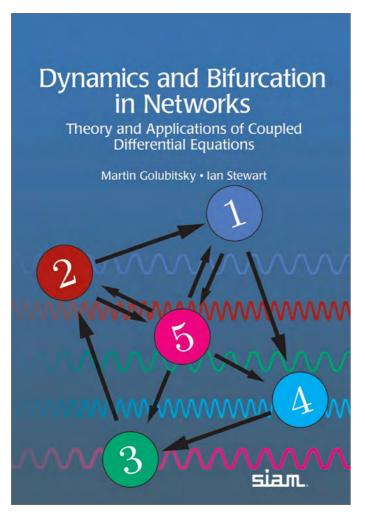
Pure and Applied Undergraduate Texts, Vol. 59

The analysis and interpretation of mathematical models is an essential part of the modern scientific process. *Topics in Applied Mathematics and Modeling* is designed for a one-semester course in this area aimed at a wide undergraduate audience in the mathematical sciences. The prerequisite for access is exposure to the central ideas of linear algebra and ordinary differential equations.

The subjects explored in the book are dimensional analysis and scaling, dynamical systems, perturbation methods, and calculus of variations. These are immense subjects of wide applicability and a fertile ground for critical thinking and quantitative reasoning, in which every student of mathematics should have some experience. Students who use this book will enhance their understanding of mathematics, acquire tools to explore meaningful scientific problems, and increase their preparedness for future research and advanced studies.

Feb 2023 219pp 9781470469917 Paperback £75.00 / €85.00 American Mathematical Society





DYNAMICS AND BIFURCATION IN NETWORKS

Theory and Applications of Coupled Differential Equations
Martin Golubitsky & Ian Stewart

Other Titles in Applied Mathematics, Vol. 185

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. How networks lead to behaviour not typical in a general dynamical system and how the architecture and symmetry of the network influence this behaviour are the book's main themes.

Dynamics and Bifurcation in Networks: Theory and Applications of Coupled Differential Equations is the first book to describe the formalism for network dynamics developed over the past 20 years. In it, the authors introduce a definition of a network and the associated class of 'admissible' ordinary differential equations, in terms of a directed graph whose nodes represent component dynamical systems and whose arrows represent couplings between these systems. They also develop connections between network architecture and the typical dynamics and bifurcations of these equations and discuss applications of this formalism to various areas of science, including gene regulatory networks, animal locomotion, decision-making, homeostasis, binocular rivalry, and visual illusions.

Jul 2023 836pp 9781611977325 Hardback £128.00 / €145.00

SIAM - Society for Industrial and Applied Mathematics



American Mathematical Society



ANALYTIC NUMBER THEORY FOR BEGINNERS

Second Edition

Prapanpong Pongsrijam

Student Mathematical Library, Vol. 103

Presents a friendly introduction to analytic number theory for both advanced undergraduate and beginning graduate students, and offers a comfortable transition between the two levels. Each chapter provides examples and exercises of varying difficulty and ends with a section of notes.

Aug 2023 375pp 9781470464448 Paperback £52.00 / €59.00



INTRODUCTION TO HARMONIC ANALYSIS

Ricardo A. Sáenz

Student Mathematical Library, Vol. 105

A self-contained introduction to the modern ideas and problems of harmonic analysis. Intended for third- and fourth-year undergraduates, the book only requires basic knowledge of real analysis, and covers necessary background in measure theory, Lebesque integration and approximation theorems.

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INVERSE PROBLEMS FOR FRACTIONAL PARTIAL DIFFERENTIAL EQUATIONS

Barbara Kaltenbacher & William Rundell

Graduate Studies in Mathematics, Vol. 230

Primarily a book on partial differential equations with two definite slants: toward inverse problems and to the inclusion of fractional derivatives. The book also has an extensive historical section and the material that can be called 'fractional calculus' and ordinary differential equations with fractional derivatives.

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THE MATHEMATICS OF SHUFFLING CARDS

Persi Diaconis & Jason Fulman

Provides a lively development of the mathematics needed to answer the question, 'How many times should a deck of cards be shuffled to mix it up?' The shuffles studied are the usual ones that real people use: riffle, overhand, and smooshing cards around on the table.

Jun 2023 346pp

9781470463038 Paperback £69.00 / €79.00

TOPOLOGICAL AND ERGODIC THEORY OF SYMBOLIC DYNAMICS

Henk Bruin

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Introduces symbolic dynamics from a perspective of topological dynamical systems. After introducing symbolic and topological dynamics, the core of the book consists of discussions of subshifts of positive entropy, of zero entropy, other non-shift minimal action on the Cantor set, and the ergodic properties of these systems.

Apr 2023 460pp 9781470472191 Paperback £75.00 / €85.00 9781470469849 Hardback £109.00 / €125.00 International Press of Boston, Inc



SELECTED WORKS IN APPLIED MATHEMATICS BY SHING-TUNG YAU

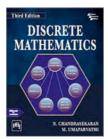
Edited by David Xianfeng Gu, Ronald Lok Ming Lui & Wen-Wei Lin

Presents forty-eight papers on applied mathematics by Fields Medal winner Shing-Tung Yau. The papers are organised topically into 13 sections: circuit theory, MRI

data analysis, matrix eigenvalues, scientific computing, evolutionary dynamics (in mathematical biology), quantum information (mathematical physics), nonlinear filtering, graph theory, medical imaging, computer vision, computer graphics and geometric modeling, artificial intelligence, and computational geometry and numerical analysis.

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DISCRETE MATHEMATICS

Third EditionN. Chandrasekaran & M. Umaparvathi

Written with a strong pedagogical focus, this third edition provides

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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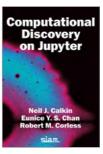
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Second EditionAdam B. Levy

Shows readers how optimization is done in practice and helps them to develop an appreciation for the richness of the theory behind the practice. Exercises, problems (including modeling and computational problems), and implementations are incorporated throughout the text to help students learn by doing.

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COMPUTATIONAL DISCOVERY ON JUPYTER

Neil J. Calkin, Eunice Y. S. Chan & Robert M. Corless

Other Titles in Applied Mathematics, Vol. 190

Uses Python to teach mathematics not found in the standard curriculum, so students learn a popular programming language

as well as some interesting mathematics. Videos, images, programs, programming activities, pencil-and-paper activities, and associated Jupyter Notebooks accompany the text, and readers are encouraged to interact with and extend the material as well as contribute their own notebooks.

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EXTREMUM SEEKING THROUGH DELAYS AND PDEs

Advances in Design and Control, Vol. 41

Expands the scope of applicability of the extremum seeking method to infinite-dimensional systems. Readers will find numerous algorithms for model-free real-time optimization are developed and their convergence guaranteed. Extensions from single-player optimisation to noncooperative games, under delays and PDEs, are provided.

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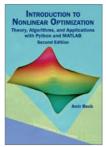


Simone Calogero

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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. Jul 2023 288pp

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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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scattering theory.

INVERSE SCATTERING THEORY AND TRANSMISSION EIGENVALUES

Second Edition
Fioralba Cakoni, David Colton &
Houssem Haddar
CBMS-NSF Regional Conference
Series in Applied Mathematics,

In the first edition of this text, the authors discussed methods for determining the support of inhomogeneous media from measured far field data and the role of transmission eigenvalue problems in the mathematical development of these methods. In this second edition, three new chapters describe recent developments in inverse

Vol 98

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THE LESS IS MORE LINEAR ALGEBRA OF VECTOR SPACES AND MATRICES



Daniela Calvetti & Erkki Somersalo

Other Titles in Applied Mathematics, Vol. 187

Designed for a proof-based course on linear algebra, this rigorous and concise textbook intentionally introduces vector spaces, inner products, and vector and matrix norms before Gaussian elimination and eigenvalues so students can quickly discover the singular value decomposition (SVD) - arguably the most useful of all matrix factorisations.

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MATRIX ANALYSIS AND APPLIED LINEAR ALGEBRA



Second Edition
Carl D. Meyer

Other Titles in Applied Mathematics, Vol. 188

This second edition has been almost completely rewritten to create a textbook that is flexible enough for a one- or two-semester course. The author achieves this by 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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MOMENT AND POLYNOMIAL OPTIMIZATION

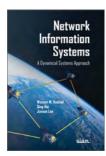


MOS-SIAM Series on Optimization, Vol. 31

Jiawang Nie

Moment and polynomial optimization is an active research field used to solve difficult questions in many areas. This book provides a systematic introduction to theory and methods, a comprehensive approach for extracting optimizers and solving truncated moment problems, and a creative methodology for using optimality conditions to construct tight Moment-SOS relaxations.

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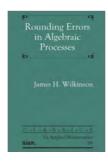


NETWORK INFORMATION SYSTEMS

A Dynamical Systems Approach Wassim M. Haddad, Qing Hui & Junsoo Lee Other Titles in Applied Mathematics, Vol. 191

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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ROUNDING ERRORS IN ALGEBRAIC PROCESSES

James H. Wilkinson

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Offers an analysis of the rounding errors made in elementary arithmetic operations and inner products, for both floating-point arithmetic and fixed-point arithmetic. The results are applied in error analyses of a variety of computations involving polynomials as well as the solution of linear systems, matrix inversion, and eigenvalue computations.

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Graeme W. Milton

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Provides the foundations for understanding a broad range of composite properties, including electrical, magnetic, electromagnetic, elastic and viscoelastic, piezoelectric, thermal, fluid flow through porous materials, thermoelectric, pyroelectric, magnetoelectric, and conduction in the presence of a magnetic field (Hall effect).

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THE ZEN OF EXOTIC COMPUTING



Peter M. Kogge

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The Turing/von Neumann model of computing is dominant today but is by no means the only one. This textbook explores an important subset of alternatives, including those such as quantum and neuromorphic, which receive daily news attention.

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BIOMEDICAL ENGINEERING & BIOTECHNOLOGY



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. It is organized into four sections and includes ten chapters that address such topics as drug delivery systems for cancer treatment, photodynamic and photothermal treatments for bacterial infections, electrospun fibers for nanomedical applications, monoclonal antibodies, nanotheranostics, and much more.

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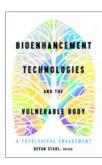
ASM HANDBOOK, VOLUME 23A

Additive Manufacturing in Biomedical Applications Edited by Roger I. Narayan

Provides a comprehensive review of established and emerging 3D printing and bioprinting approaches for biomedical applications, and expansive coverage of various feedstock materials for additive manufacturing.

Jan 2023 530pp 9781627083904 Hardback £324.00 / €371.00

Baylor University Press



BIOENHANCEMENT TECHNOLOGIES AND THE VULNERABLE BODY

A Theological Engagement

Edited by Devan Stahl

Seeks to analyze the nuances of bioenhancement from the perspective of those who are often marginalized in bioethical discussions. It is aimed primarily at Christian scholars and graduate students already conversant in bioethics but will also appeal to contextual theologians and others not well-versed in these debates.

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H.W. Wilson



THE REFERENCE SHELF: GENE EDITING & GENETIC ENGINEERING

H.W. Wilson

The recent research into using the CRISPR gene-editing technology to change genetic coding in an organism's DNA has generated tremendous public interest, but where is this technology going? This issue looks at gene editing and genetic engineering, drawing from periodicals, medical reports, and politics to see how this debate is progressing within popular culture.

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ADVANCEMENTS IN BIO-MEDICAL IMAGE PROCESSING AND AUTHENTICATION INTELEMEDICINE

Edited by Rijwan Khan & Indrajeet Kumar

Introduces recent advancements, opportunities, and challenges for bio-medical image processing and authentication in telemedicine and discusses the design of high-accuracy decision support systems. Key topics covered include artificial intelligence, medical imaging, telemedicine, and technology.

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Edited by Suresh Basavaraj Arakera

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environment. The book covers a range of topics, including climate change, bioremediation, and smart drugs.

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CUTTING-EDGE APPLICATIONS OF NANOMATERIALS IN BIOMEDICAL SCIENCES

Edited by Pranav Kumar Prabhakar & Ajit Prakash

A comprehensive exploration of the revolutionary impact of

nanotechnology on the field of medicine. This book delves into the remarkable potential of nanomaterials in advancing medical diagnostics and therapeutics, particularly in drug delivery. It serves as an indispensable guide, presenting the latest developments in nanomedicine, precision medicine, and nanoengineering while addressing the challenges and opportunities that arise.

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BIOMIMETICS

Bridging the Gap Edited by Ziyad S. Haidar Biomedical Engineering, Vol. 17

Provides interested readers with a practical reference approaching biomimetics and biomimicry from a realistic and translational perspective, discussing problems and offering solutions and including studies ranging from basics to the

clinic to scale-up and industrial or go-to-market obstacles.

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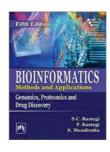
CRISPR TECHNOLOGY

Recent Advances
Edited by Yuan-Chuan Chen
CRISPR technology has been
extensively used in vitro and in
vivo as a tool in basic research
for genetic editing (e.g., genome
encoding, silencing, enhancing, and
modification). This book provides
a comprehensive overview of
CRISPR technology. It examines

its discovery, improvement, and implications, explores its technology and applications, and discusses perspectives and challenges.

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BIOINFORMATICS

Methods and Applications: Genomics, Proteomics and Drug Discovery, Fifth Edition S.C. Rastoqi, P. Rastoqi &

S.C. Rastogi, P. Rastogi & N. Mendiratta

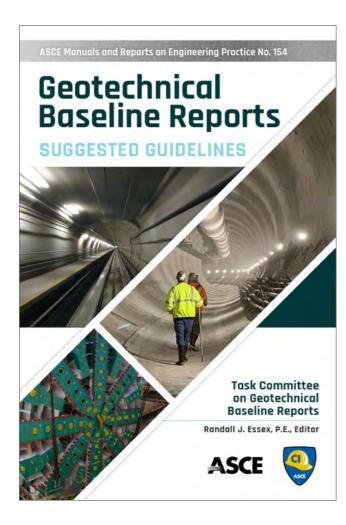
Designed as a comprehensive text for students and professionals pursuing careers in the fields of bioinformatics, molecular biology,

pharmacy and drug research, this fifth edition offers a fascinating and authoritative treatment of the entire spectrum of bioinformatics, covering a wide range of high-throughput technologies.

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GEOTECHNICAL BASELINE REPORTS

Suggested Guidelines

Edited by Randall J. Essex

ASCE Manuals and Reports on Engineering Practice No. 154

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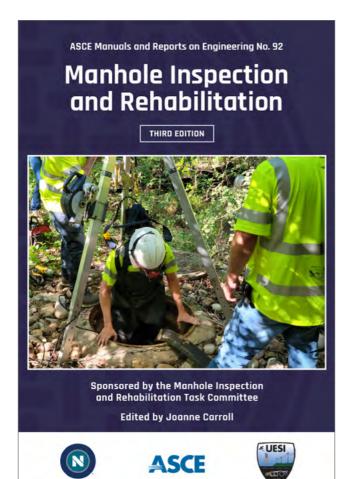
- Improvement of GBRs through more concise organization and better presentation and wording of baselines.
- For Design-Build (DB) delivery, guidance on collaboration between the owner's team and the DB team during GBR development.
- Importance of having experienced professionals engaged in the GBR writing, review, and integration with other contract documents.
- Discussion of conditions and obstructions that have led to claims on past projects.
- Broadened discussion of applications of GBRs to geotechnical construction other than tunnels and shafts.
- Discussion of legal and contractual perspectives that address trends in contractor claims and lawsuits by owners or contractors.
- \bullet Practices and lessons learned based on experience over the last 15 years.
- Case histories that illustrate how baselines were utilized to resolve disputes.

Feb 2023 110pp

9780784416082 Paperback £80.00 / €90.00

American Society of Civil Engineers





MANHOLE INSPECTION AND REHABILITATION

Third Edition

Edited by Joanne Carroll

ASCE Manuals and Reports on Engineering Practice No. 92

Provides a valuable update to the *Manual of Practice* to reflect current practices in both the inspection and rehabilitation of manholes.

Updated topics include:

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- An expanded chapter on the importance of manhole condition assessment standardization through NASSCO's Manhole Assessment Certification Program (MACP) and proper inspection through NASSCO's Inspector Training Certification Program (ITCP) for manhole rehabilitation.
- An expanded chapter on various manhole rehabilitation methods and technologies.
- A newly added summary chapter, detailing the importance of proper manhole inspection and rehabilitation.

MOP 92 continues to be a valuable trenchless technology resource, assisting agencies in the proper identification of inventory and asset management, assessment and condition of manhole structures, decision-making regarding rehabilitation materials and methods, as well as providing key quality control measures when specifying the use of rehabilitation materials and technologies for manholes.

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American Society of Civil Engineers



MEASUREMENT OF OXYGEN TRANSFER IN CLEAN WATER

American Society of Civil Engineers
ASCE/EWRI 2-22

Provides the latest methods for measuring the rate of oxygen transfer from diffused gas and mechanical oxygenation devices to

water. This standard aims to be general enough to be applied to all clean water unsteady-state tests and specific enough to incorporate all essential procedures.

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SNOW LOADS

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

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American Society of Civil Engineers
ASCE/SEI 8-22

Provides design criteria for the determination of the strength of cold-formed stainless steel structural members and connections for use in buildings and other statically loaded structures. This is a significant update to ASCE 8-02 that incorporates the latest findings in both stainless steel and carbon steel research and practice.

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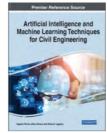
STANDARD FOR MITIGATION OF DISPROPORTIONATE COLLAPSE POTENTIAL IN BUILDINGS AND OTHER STRUCTURES

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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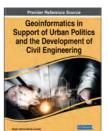
ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING TECHNIQUES FOR CIVIL ENGINEERING

Edited by Vagelis Plevris, Afaq Ahmad & Nikos D Lagaros

Highlights the latest technologies and applications of AI in structural

engineering, transportation engineering, geotechnical engineering, and more. The book features a collection of innovative research on the methods and implementation of AI and machine learning in multiple facets of civil engineering.

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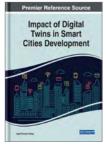
GEOINFORMATICS IN SUPPORT OF URBAN POLITICS AND THE DEVELOPMENT OF CIVIL ENGINEERING

Edited by Sérgio António Neves Lousada

Explores the evolution of civil

engineering, what has happened in recent decades, what will develop in the future, and what the path will be. This work characterises the different academic areas of civil engineering, demonstrating its evolution, and covers topics such as landslide susceptibility mapping, spatial data, and local development.

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Edited by Ingrid Vasiliu-Feltes

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large-scale adoptions. Critical domains such as ethics, data governance, cybersecurity, inclusion, diversity, and sustainability are also addressed and considered.

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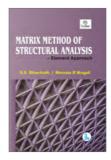
ENGINEERING ECONOMICS, ESTIMATION AND COSTING

Seema Singh & Madhuri Kumari

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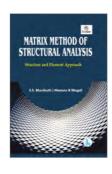
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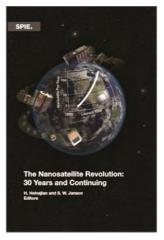
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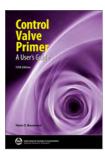


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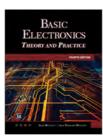
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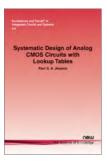
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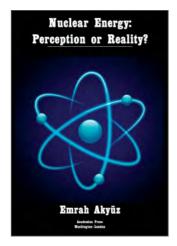
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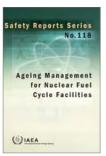


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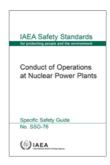
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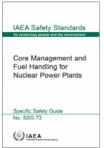
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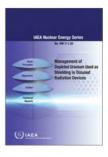
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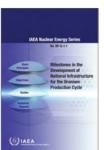
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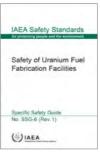
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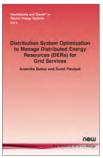
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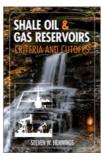
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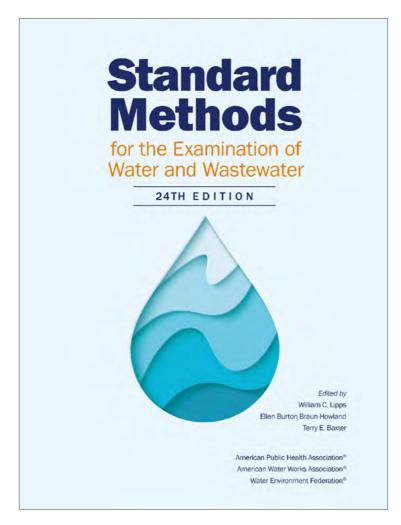
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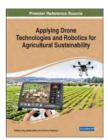
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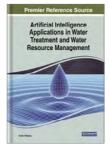
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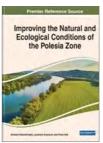
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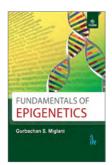
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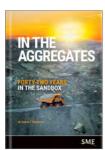
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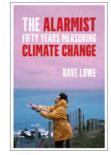
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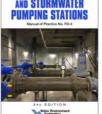
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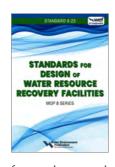
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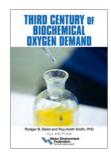
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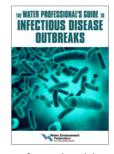
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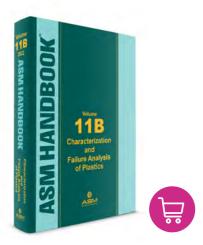
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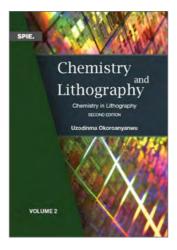
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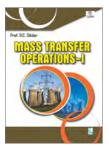
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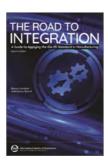
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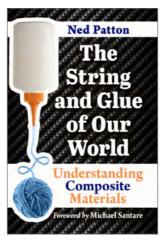
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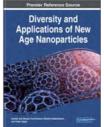
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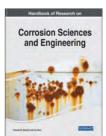
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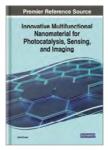
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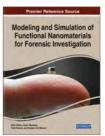
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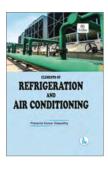
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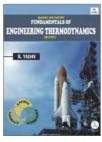
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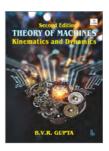
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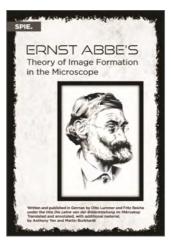
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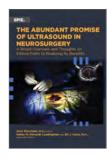
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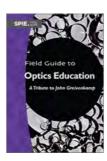
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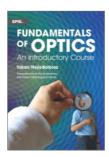


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A Tribute to John Greivenkamp Edited by J. Scott Tyo & Eric Pepper Field Guides, Vol. 53

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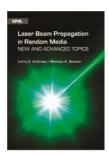
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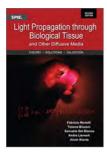


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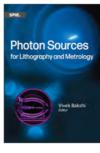
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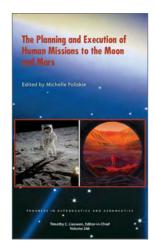
Optics Without Equations William L. Wolfe

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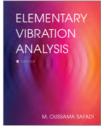
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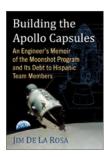
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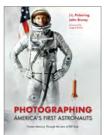
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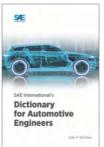
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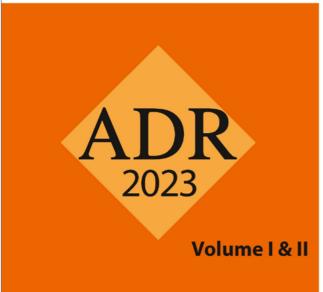
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Agreement concerning the International Carriage of Dangerous Goods by Road





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United Nations Economic Commission for Europe

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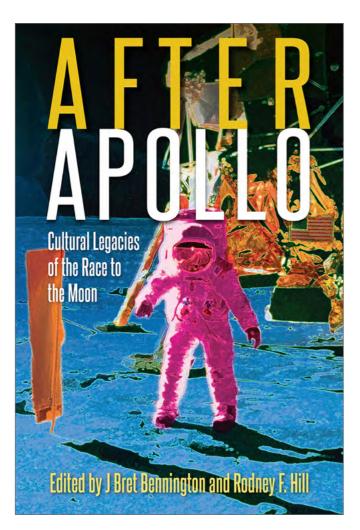
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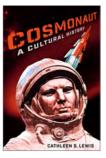
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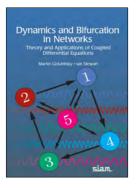
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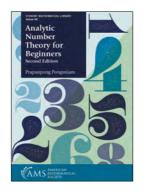
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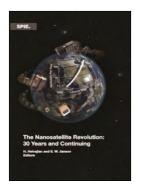
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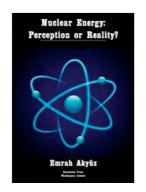
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