



EUROSPAN

TECHNOLOGY & ENGINEERING

2021-2022 CATALOGUE

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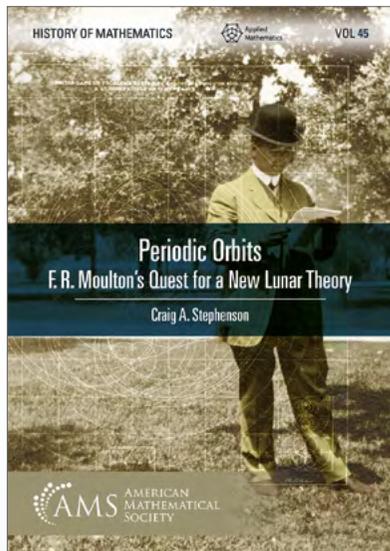


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APPLIED MATHEMATICS

American Mathematical Society

★ HIGHLIGHT



PERIODIC ORBITS

F. R. Moulton's Quest for a New Lunar Theory

Craig A. Stephenson

Jun 2021 255pp

9781470456719 Paperback £94.95 / €111.00

History of Mathematics, Vol. 45

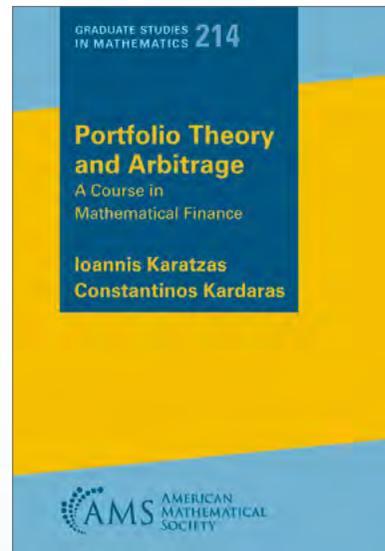
Owing to its simple formulation and intractable nature, along with its application to the lunar theory, the three-body problem has since it was first studied by Newton in the Principia attracted the attention of many of the world's most gifted mathematicians and astronomers.

The book begins with a detailed description of the early history of the three-body problem and its periodic solutions, with chapters dedicated to the pioneering work of Hill, Poincaré, and Darwin. This is followed by the first in-depth account of the contribution to the subject by the mathematical astronomer Forest Ray Moulton and his research students at the University of Chicago.

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★ HIGHLIGHT



PORTFOLIO THEORY AND ARBITRAGE

A Course in Mathematical Finance

Ioannis Karatzas & Constantinos Kardaras

Nov 2021 309pp

9781470465988 Paperback £70.50 / €82.00

Graduate Studies in Mathematics, Vol. 214

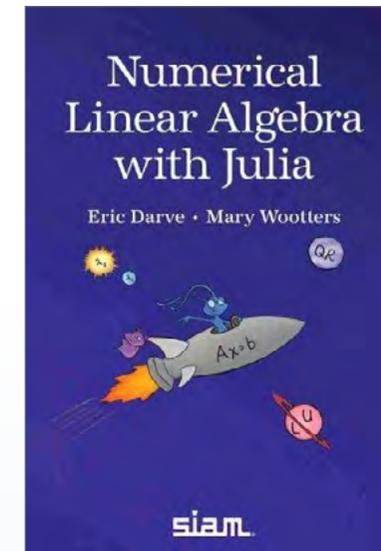
Develops a mathematical theory for finance, based on a simple and intuitive absence-of-arbitrage principle. This posits that it should not be possible to fund a non-trivial liability, starting with initial capital arbitrarily near zero. The principle is easy-to-test in specific models, as it is described in terms of the underlying market characteristics; it is shown to be equivalent to the existence of the so-called "Kelly" or growth-optimal portfolio, of the log-optimal portfolio, and of appropriate local martingale deflators. The resulting theory is powerful enough to treat in great generality the fundamental questions of hedging, valuation, and portfolio optimization.

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SIAM - Society for Industrial and Applied Mathematics

★ HIGHLIGHT



NUMERICAL LINEAR ALGEBRA WITH JULIA

Eric Darve & Mary Wootters

Aug 2021 277pp

9781611976540 Paperback £79.95 / €93.00

Provides in-depth coverage of fundamental topics in numerical linear algebra, including how to solve dense and sparse linear systems, compute QR factorizations, compute the eigendecomposition of a matrix, and solve linear systems using iterative methods such as conjugate gradient.

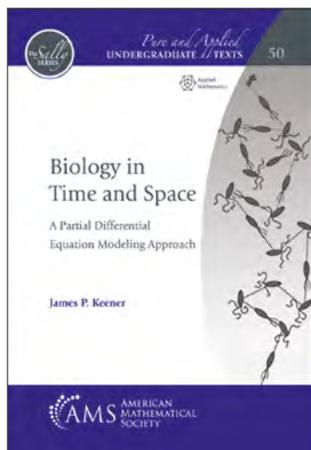
Written in a friendly and approachable style, the book contains:

- Julia code to illustrate concepts and allow readers to explore methods on their own.
- Mathematical foundations and detailed descriptions of algorithms.
- Illustrations and graphics that emphasize core concepts and demonstrate the algorithms.

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American Mathematical Society



BIOLOGY IN TIME AND SPACE

A Partial Differential Equation Modeling Approach

James P. Keener

Aug 2021 314pp

9781470454289 Paperback

£78.95 / €92.00

Pure and Applied Undergraduate Texts, Vol. 50

How do biological objects communicate, make structures, make measurements and decisions, search for food, i.e., do all the

things necessary for survival? Designed for an advanced undergraduate audience, this book uses mathematics to begin to tell that story.

AN EXCURSION THROUGH DISCRETE DIFFERENTIAL GEOMETRY

Edited by Keenan Crane

Jan 2021 76pp

9781470446628 Paperback

£94.50 / €109.00

Proceedings of Symposia in Applied Mathematics, Vol. 76

Illustrates the principles of Discrete Differential Geometry via several recent topics: discrete nets, discrete differential operators, discrete mappings, discrete conformal geometry, and discrete optimal transport.

Proceedings of Symposia in
APPLIED MATHEMATICS

Volume 76

An Excursion Through Discrete Differential Geometry

Keenan Crane
Editor

AMS
AMERICAN
MATHEMATICAL
SOCIETY

FITTING SMOOTH FUNCTIONS TO DATA

Charles Fefferman & Arie Israel

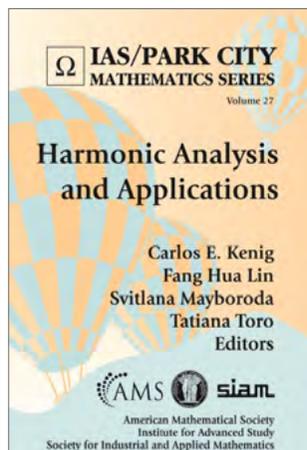
Jan 2021 160pp

9781470461300 Paperback £47.50 / €55.00

CBMS Regional Conference Series in Mathematics, Vol. 135

An introductory text that charts the recent developments in the area of Whitney-type extension problems and the mathematical aspects of interpolation of data. The book provides a detailed tour of a new and active area of mathematical research. In each section the authors focus on a different key insight in the theory.

A co-publication of the AMS and CBMS



HARMONIC ANALYSIS AND APPLICATIONS

Edited by Carlos E. Kenig et al

Jan 2021 345pp

9781470461270 Hardback

£87.95 / €102.00

IAS/Park City Mathematics Series, Vol. 27

Based on lectures presented at the summer school on Harmonic Analysis, this volume offers fresh, concise, and high-level introductions to recent developments in the field, often with new arguments not found elsewhere.

A co-publication of the AMS, IAS/Park City Mathematics Institute, and Society for Industrial and Applied Mathematics

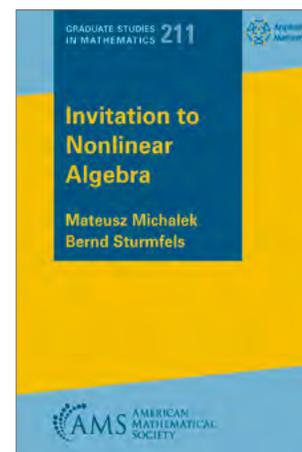
ILLUSTRATING MATHEMATICS

Edited by Diana Davis

Jan 2021 171pp

9781470461225 Paperback £23.95 / €28.00

A book for anyone who wishes to illustrate their mathematical ideas. It is organised by material, rather than by subject area, and purposefully emphasizes the process of creating things, including discussions of failures that occurred along the way.



INVITATION TO NONLINEAR ALGEBRA

Matusz Michalek & Bernd Sturmfels

Jul 2021 226pp

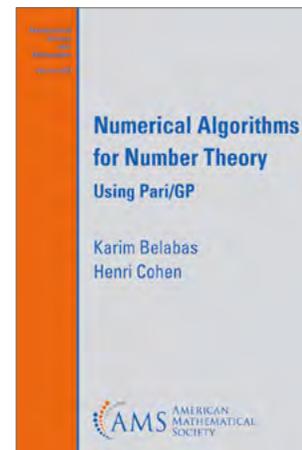
9781470465513 Paperback

£67.95 / €79.00

Graduate Studies in Mathematics, Vol. 211

Nonlinear algebra provides modern mathematical tools to address challenges arising in the sciences and engineering. It is useful everywhere, where polynomials appear: in particular, data and computational sciences, statistics,

physics, optimization. The book offers an invitation to this broad and fast-developing area.



NUMERICAL ALGORITHMS FOR NUMBER THEORY

Using Pari/GP

Karim Belabas & Henri Cohen

Aug 2021 430pp

9781470463519 Paperback

£99.95 / €116.00

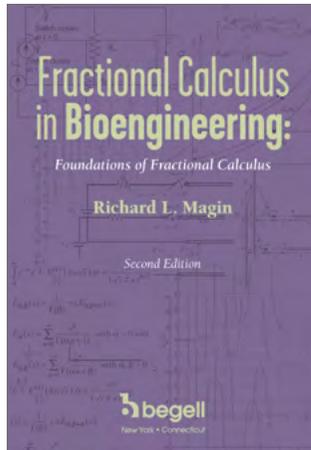
Mathematical Surveys and Monographs, Vol. 254

Presents multiprecision algorithms used in number theory and elsewhere, such as extrapolation, numerical integration, numerical summation (including multiple zeta values and the Riemann-Siegel

formula), evaluation and speed of convergence of continued fractions, Euler products and Euler sums, inverse Mellin transforms, and complex L-functions.

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FRACTIONAL CALCULUS IN BIOENGINEERING, PART 1

Foundations of Fractional Calculus, Second Edition

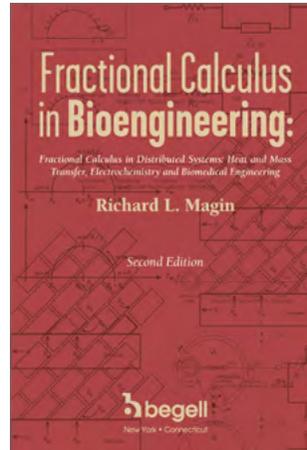
Richard I. Magin

Aug 2021 145pp

9781567005066 Hardback

£54.50 / €63.00

Recent monographs and symposia proceedings have highlighted the application of fractional calculus in physics, continuum mechanics, signal processing, and electromagnetics, but with few examples of applications in bioengineering. This book fills that gap.



FRACTIONAL CALCULUS IN BIOENGINEERING, PART 3

Fractional Calculus in Distributed Systems: Heat and Mass Transfer, Electrochemistry and Biomedical Engineering, Second Edition

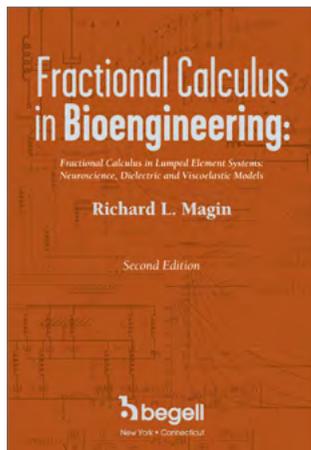
Richard I. Magin

Aug 2021 144pp

9781567005103 Hardback

£54.50 / €63.00

Fractional calculus is applied to problems in nerve stimulation, dielectric relaxation, and viscoelastic materials by extending the governing differential equations to include fractional order terms.



FRACTIONAL CALCULUS IN BIOENGINEERING, PART 2

Fractional Calculus in Lumped Element Systems: Neuroscience, Dielectric and Viscoelastic Models, Second Edition

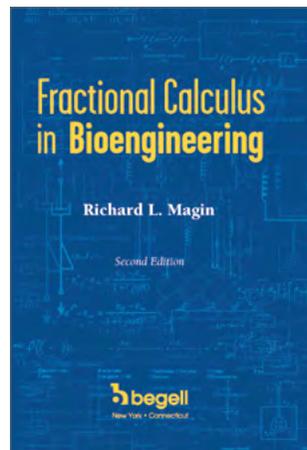
Richard I. Magin

Aug 2021 150pp

9781567005080 Hardback

£54.50 / €63.00

The fundamental properties of fractional calculus are introduced.



FRACTIONAL CALCULUS IN BIOENGINEERING

Second Edition

Richard I. Magin

Aug 2021 439pp, 3-Volume Set

9781567004946 Hardback

£104.00 / €120.00

For bioengineers who wish to learn more about fractional calculus (integration and differentiation of arbitrary order) and the ways in which it can be used to solve biomedical problems. The text covers a wide range of topics that will also be of interest to other scientists and engineers.

NONLINEAR FUNCTIONAL ANALYSIS

A First Course, Second Edition

S. Kesavan

Mar 2021 178pp

9789386279859 Paperback £39.95 / €46.00

Texts and Readings in Mathematics, Vol. 28

Provides an introduction to the theory of the topological degree and to some variational methods used in the solution of some nonlinear equations formulated in Banach or Hilbert spaces. The material presented will be particularly useful for students aspiring to work in the applications of mathematics, especially in partial differential equations.

IGI Global

ADVANCEMENTS IN FUZZY RELIABILITY THEORY

Edited by Akshay Kumar et al

Apr 2021 322pp

9781799875659 Paperback £167.00 / €193.00

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Introduces the concept of reliability fuzzy set theory, including various methods, techniques, and algorithms.

NONLINEAR EQUATIONS FOR PROBLEM SOLVING IN MECHANICAL ENGINEERING

Sayed Amir Hossein Kiaeian Moosavi & Davood Domairry Ganji

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9781522581222 Hardback £176.00 / €203.00

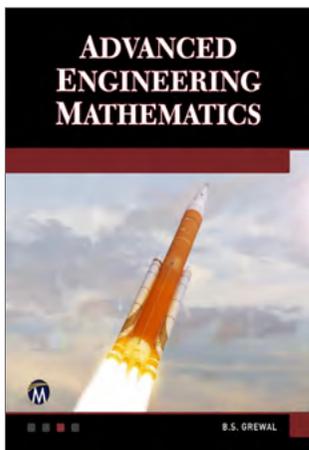
Provides innovative insights into dynamic systems in the context of nonlinear differential equations and explores the application of nonlinear science in different areas of engineering.

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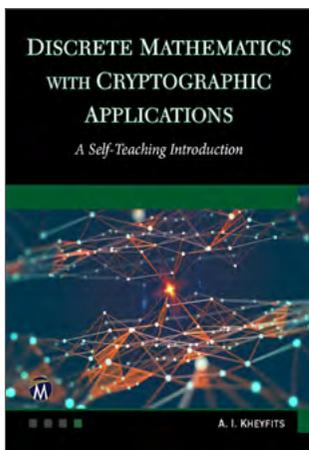
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ADVANCED ENGINEERING MATHEMATICS

B.S. Grewal
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Covers all of the mathematical topics required in the typical engineering curriculum. Hundreds of examples with worked out solutions provide a self-study format for both engineering students and as a refresher course for practicing engineers.

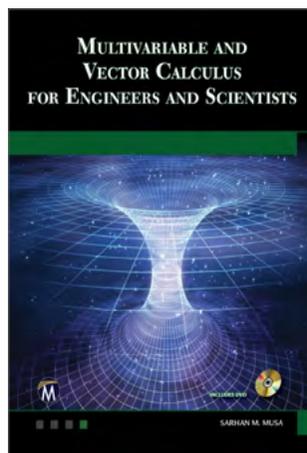


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A Self-Teaching Introduction

A. I. Kheyfits
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Covers the discrete mathematics as it has been established after its emergence since the middle of the last century and its elementary applications to cryptography. It can be used by any individual studying discrete mathematics, finite mathematics, and similar subjects.

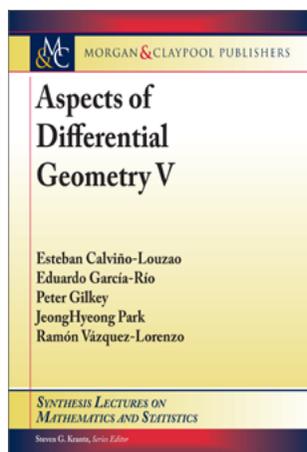


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Sarhan M. Musa
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Designed for undergraduates in mathematics, engineering, the physical sciences and for practicing engineers, this book focuses on practical applications of engineering and science used in industry. It first presents the theoretical concepts followed by practical applications of vector calculus, differentiation, and integration.

Morgan & Claypool Publishers



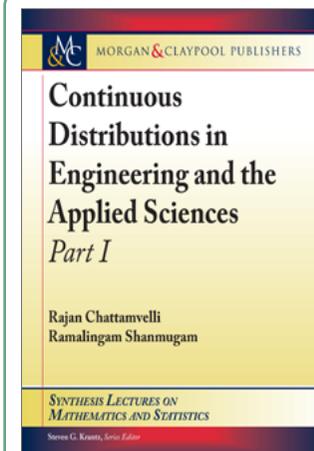
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Esteban Calviño-Louzao et al
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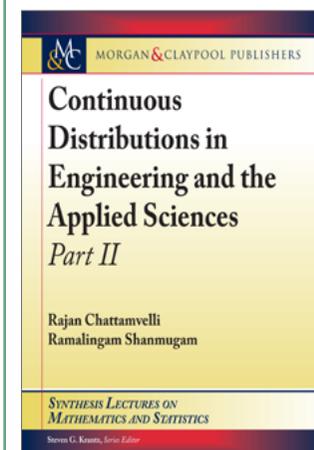
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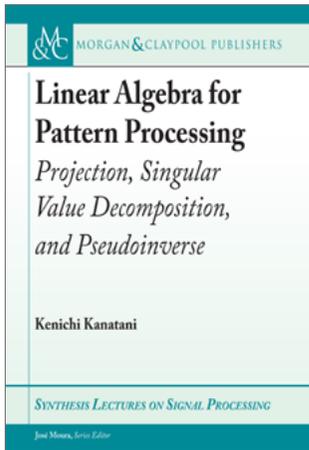
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LINEAR ALGEBRA FOR PATTERN PROCESSING

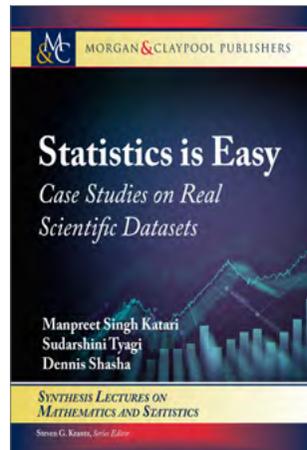
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Kenichi Kanatani

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STATISTICS IS EASY

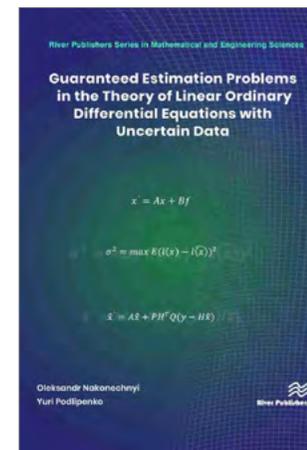
Case Studies on Real Scientific Datasets

Manpreet Singh Katari, Sudarshini Tyagi & Dennis Shasha

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£22.95 / €26.00
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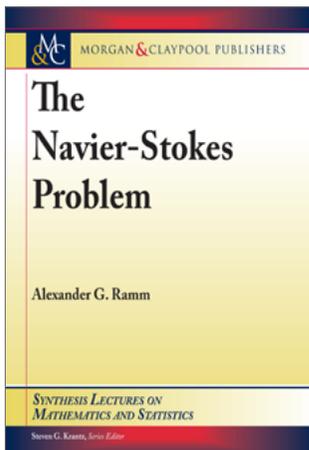
GUARANTEED ESTIMATION PROBLEMS IN THE THEORY OF LINEAR ORDINARY DIFFERENTIAL EQUATIONS WITH UNCERTAIN DATA

Oleksandr Nakonechnyi & Yuri Podlipenko

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THE NAVIER-STOKES PROBLEM

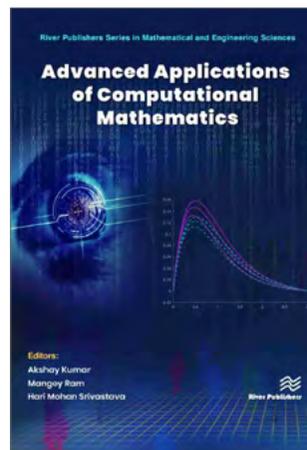
Alexander G. Ramm

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Synthesis Lectures on Mathematics and Statistics

The main result of this book is a proof of the contradictory nature of the Navier-Stokes problem (NSP). It is proved that the NSP is physically wrong, and the solution to the NSP does not exist on \mathbb{R}_+ (except for the case when the initial velocity and the exterior force are both equal to zero).

River Publishers



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Covers multidisciplinary studies containing advanced research in the field of computational and applied mathematics. The book includes research methodology, techniques, applications, and algorithms. The book will be very useful to advanced students, researchers and practitioners who are involved in the areas of computational and applied mathematics and engineering.



SPECIAL FUNCTIONS AND THEIR APPLICATIONS

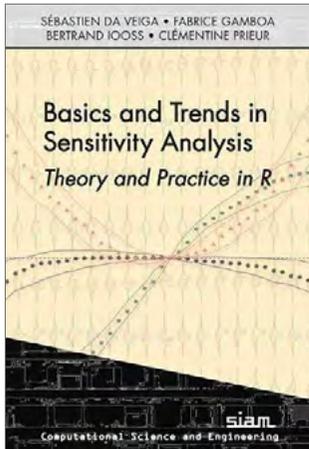
Bipin Singh Koranga, Sanjay Kumar Padaliya & Vivek Kumar Nautiyal

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River Publishers Series in Mathematical and Engineering Sciences

Special functions are mathematical functions that have established names and notations due to their importance. This book offers descriptions and explanations of the Gamma function, the Probability Integral, Spherical Harmonics Theory, the Bessel function, Hermite polynomials and Laguerre polynomials.

SIAM - Society for Industrial and Applied Mathematics



BASICS AND TRENDS IN SENSITIVITY ANALYSIS

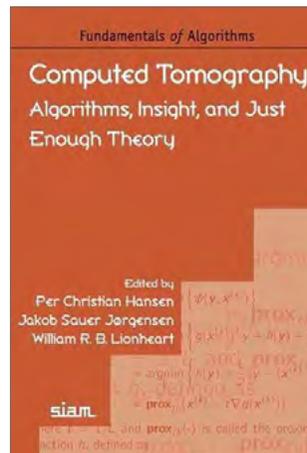
Theory and Practice in R

Sébastien Da Veiga et al

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Computational Science and Engineering, Vol. 23

Provides an overview of global sensitivity analysis methods and algorithms, including their theoretical basis and mathematical properties. Throughout, readers can practice applications using the accompanying R code.



COMPUTED TOMOGRAPHY

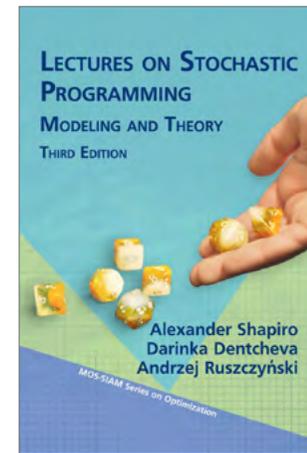
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Edited by Per Christian Hansen, Jakob Sauer Jørgensen & William R. B. Lionheart

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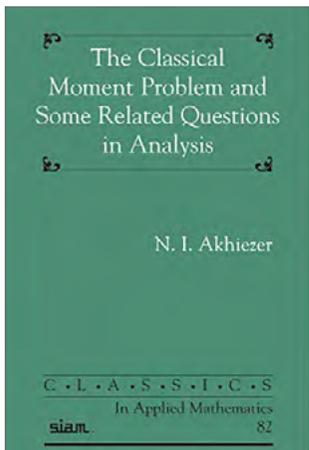
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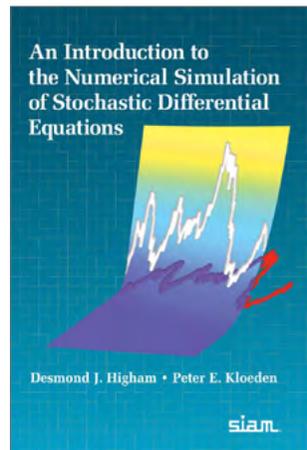
N.I. Akhiezer

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between the moment problem and branches of analysis; and a unified exposition of important classical results, which are difficult to read in the original journals.

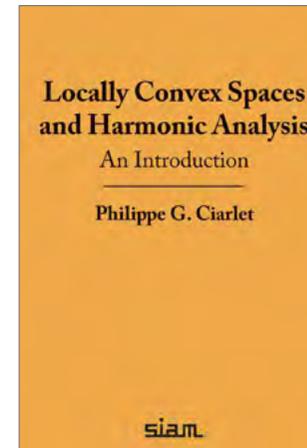


AN INTRODUCTION TO THE NUMERICAL SIMULATION OF STOCHASTIC DIFFERENTIAL EQUATIONS

Desmond J. Higham & Peter E. Kloeden

May 2021 289pp
9781611976427 Hardback
£71.95 / €82.00

Provides a lively and accessible introduction to the numerical solution of stochastic differential equations with the aim of making this subject available to the widest possible readership. The book presents an outline of the underlying convergence and stability theory while avoiding technical details.



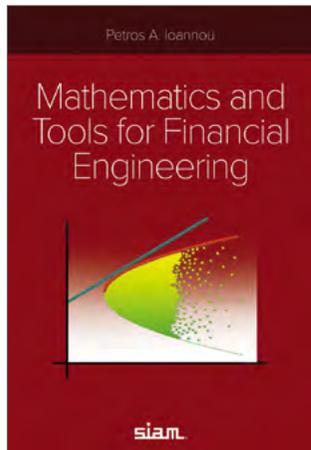
LOCALLY CONVEX SPACES AND HARMONIC ANALYSIS

An Introduction

Philippe G. Ciarlet

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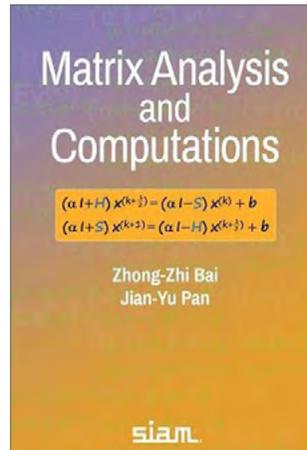
This self-contained textbook covers the fundamentals of two basic topics of linear functional analysis: locally convex spaces and harmonic analysis. Readers will find detailed introductions to topological vector spaces, distribution theory, weak topologies, Fourier transform, Hilbert transform, and Calderon-Zygmund singular integrals.



MATHEMATICS AND TOOLS FOR FINANCIAL ENGINEERING

Petros A. Ioannou
 Aug 2021 268pp
 9781611976755 Paperback
 £71.95 / €82.00

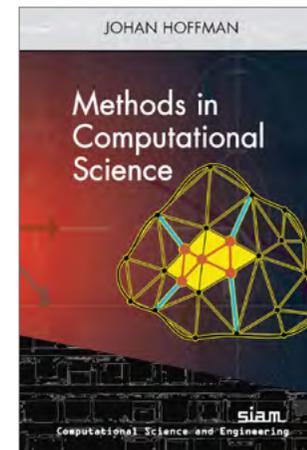
Trains students to use mathematical and engineering tools to understand and solve financial problems. The book contains numerous examples and problems.



MATRIX ANALYSIS AND COMPUTATIONS

Zhong-Zhi Bai & Jian-Yu Pan
 Aug 2021 484pp
 9781611976625 Paperback
 £89.95 / €103.00

Introduces the basics of matrix analysis and presents representative methods and their corresponding theories in matrix computations.

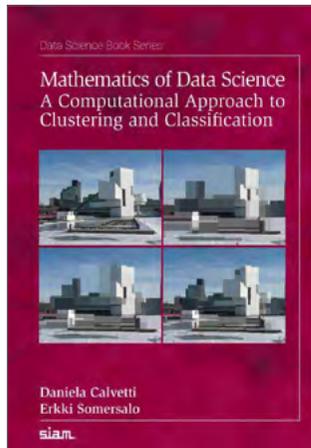


METHODS IN COMPUTATIONAL SCIENCE

Johan Hoffman
 Aug 2021 395pp
 9781611976717 Paperback
 £79.95 / €93.00

Computational Science and Engineering, Vol. 24

Introduces computational science through a set of methods and algorithms with the aim of familiarizing the reader with the field's theoretical foundations and providing the practical skills to use and develop computational methods.

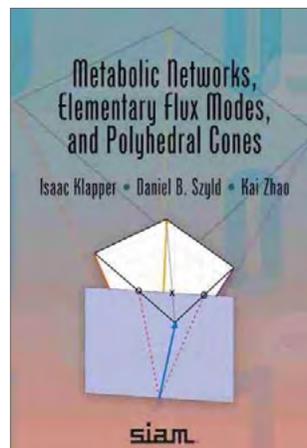


MATHEMATICS OF DATA SCIENCE: A Computational Approach to Clustering and Classification

Daniela Calvetti & Erkki Somersalo
 Feb 2021 189pp
 9781611976366 Paperback
 £58.50 / €67.00

Data Science, Vol. 1

Provides a solid mathematical basis for understanding popular data science algorithms for clustering and classification and shows that an in-depth understanding of the mathematics powering these

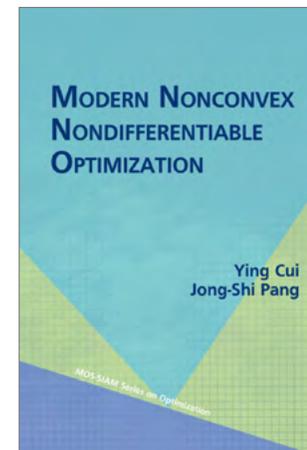


METABOLIC NETWORKS, ELEMENTARY FLUX MODES, AND POLYHEDRAL CONES

Isaac Klapper, Daniel B. Szyld & Kai Zhao
 Jul 2021 125pp
 9781611976526 Paperback
 £54.50 / €63.00

Expositions of quantitative methods and algorithms for biological data tend to be scattered through the technical literature, often across different fields, and are thus awkward to assimilate. This book documents one example of this: the

relationship between the cell biology idea of metabolic networks and the mathematical idea of polyhedral cones.



MODERN NONCONVEX NONDIFFERENTIABLE OPTIMIZATION

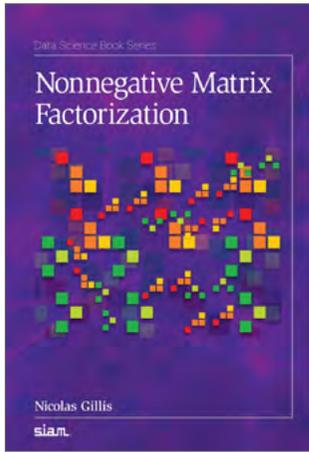
Ying Cui & Jong-Shi Pang
 Dec 2021 774pp
 9781611976731 Hardback
 £107.00 / €124.00

MOS-SIAM Series on Optimization, Vol. 29

Provides a foundation and methodology for modern nonconvex nondifferentiable optimization, starting with the fundamentals of classical smooth optimization and building on established convex programming techniques.



algorithms gives insight into the underlying data. It presents a step-by-step derivation of these algorithms.



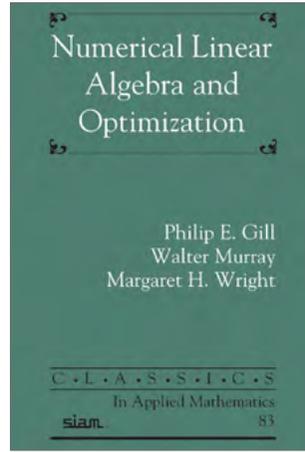
NONNEGATIVE MATRIX FACTORIZATION

Nicolas Gillis
Jan 2021 350pp
9781611976403 Paperback
£78.95 / €91.00

Data Science, Vol. 2

Nonnegative matrix factorization (NMF) in its modern form has become a standard tool in the analysis of high-dimensional data sets. This book provides a comprehensive and up-to-date account of the most important aspects of the NMF problem

and is the first to detail its theoretical aspects, including geometric interpretation, nonnegative rank, complexity, and uniqueness. It explains why understanding these theoretical insights is key to using this computational tool effectively and meaningfully.



NUMERICAL LINEAR ALGEBRA AND OPTIMIZATION

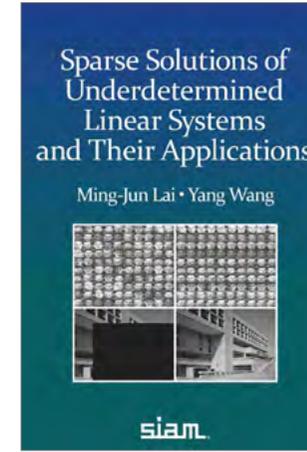
Philip E. Gill, Walter Murray & Margaret H. Wright

Jun 2021 426pp
9781611976564 Paperback
£79.95 / €93.00

Classics in Applied Mathematics, Vol. 83

Covers the fundamentals of closely related topics: linear systems (linear equations and least-squares) and linear programming (optimizing a linear function subject to linear

constraints). For each problem class, stable and efficient numerical algorithms intended for a finite-precision environment are derived and analysed.

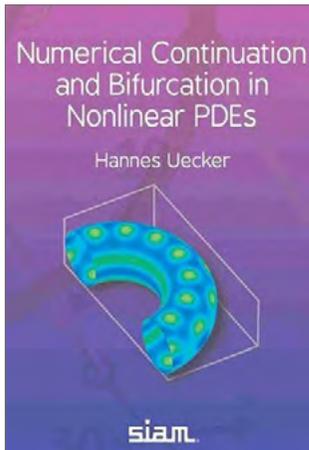


SPARSE SOLUTIONS OF UNDERDETERMINED LINEAR SYSTEMS AND THEIR APPLICATIONS

Ming-Jun Lai & Yang Wang

Jul 2021 437pp
9781611976502 Paperback
£79.95 / €93.00

Presents a special solution of underdetermined linear systems where the number of nonzero entries in the solution is very small compared to the total number of entries. This is called sparse solution. As underdetermined linear systems can be very different, the authors explain how to compute a sparse solution by many approaches.

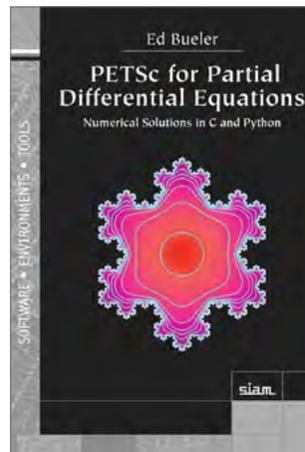


NUMERICAL CONTINUATION AND BIFURCATION IN NONLINEAR PDEs

Hannes Uecker
Aug 2021 364pp
9781611976601 Paperback
£79.95 / €93.00

Presents a hands-on approach to numerical continuation and bifurcation for nonlinear PDEs in 1D, 2D and 3D; provides a concise review of analytical background and numerical methods; explains the use of the free MATLAB package pde2path via examples with ready to

use code; and contains demo codes that can be adapted to the reader's given problem.



PETSc FOR PARTIAL DIFFERENTIAL EQUATIONS

Numerical Solutions in C and Python

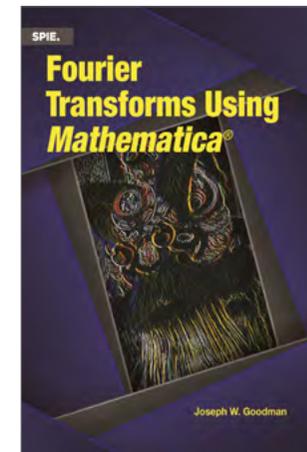
Ed Bueler
Jan 2021 391pp
9781611976304 Paperback
£84.95 / €98.00

Software, Environments, and Tools, Vol. 31

The Portable, Extensible Toolkit for Scientific Computation (PETSc) is an open-source library of advanced data structures and methods for solving

linear and nonlinear equations and for managing discretizations. This book uses these modern numerical tools to demonstrate how to solve nonlinear partial differential equations in parallel.

SPIE Press



FOURIER TRANSFORMS USING MATHEMATICA®

Joseph W. Goodman
Jan 2021 116pp
9781510638556 Paperback
£38.50 / €44.00

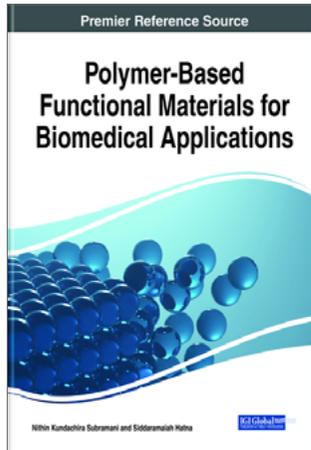
Press Monographs, Vol. 322

Introduces the reader to the properties of Fourier transforms and their uses, and introduces the program Mathematica, and demonstrates its use in Fourier analysis. Unlike many other introductory treatments of the Fourier transform, this

treatment will focus from the start on both one-dimensional and two-dimensional transforms.

BIOMEDICAL ENGINEERING & BIOTECHNOLOGY

IGI Global



POLYMER-BASED FUNCTIONAL MATERIALS FOR BIOMEDICAL APPLICATIONS

Edited by Nithin Kundachira Subramani & Siddaramaiah Hatna

Aug 2021 320pp
9781799871996 Paperback £181.00 / €208.00
9781799871989 Hardback £240.00 / €276.00

Offers an overview of major classes of special polymers and polymer-based composites and/or nanocomposites and/or blends for biomedical applications.

Recent advances are critically explored with a focus on functional polymer-based complex structures such as composites and/or nanocomposites, biocompatible blends, scaffolds and hydrogels.

Morgan & Claypool Publishers

EMERGING TRENDS IN IMMUNOMODULATORY NANOMATERIALS TOWARD CANCER THERAPY

Anubhab Mukherjee, Vijay Sagar Madamsetty & Sudip Mukherjee

Apr 2021 84pp
9781636391045 Paperback £54.50 / €63.00
9781636391069 Hardback £72.50 / €83.00

Synthesis Lectures on Biomedical Engineering

Examines various immunomodulatory nanomaterials (including organic, polymer, inorganic, liposomes, viral, and protein nanoparticles) and their role in cancer therapy. Additionally, the mechanism of immunomodulation is reviewed in detail. The challenges of these therapies and their future outlook are also discussed.

Plunkett Research, Ltd.



PLUNKETT'S BIOTECH, PHARMACEUTICALS & GENETICS INDUSTRY ALMANAC 2022

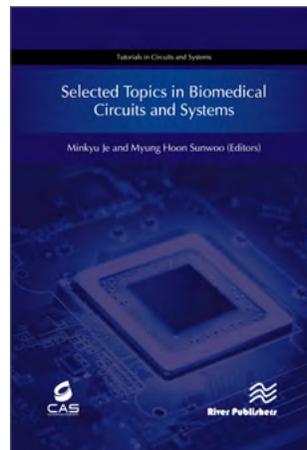
The Only Complete Guide to the Pharmaceuticals (drugs), Biotech, and Genetics Industry

Jack W. Plunkett
Sep 2021 517pp
9781628316056 Paperback £310.00 / €340.00

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.

River Publishers



SELECTED TOPICS IN BIOMEDICAL CIRCUITS AND SYSTEMS

Edited by Minkyu Je & Myung Hoon Sunwoo

Apr 2021 250pp
9788770221481 Hardback £81.95 / €95.00

Tutorials in Circuits and Systems

Provides readers with an overview of new developments in the field of biomedical circuits and systems. The book covers basic information about system-level and circuit-level requirements, operation principles, key factors of considerations, and design/implementation techniques.

CIVIL ENGINEERING

American Society of Civil Engineers

AUTOMATED PEOPLE MOVER STANDARDS (21-21)

American Society of Civil Engineers

Aug 2021 114pp
9780784415573 Paperback £146.00 / €167.00

ANSI/ASCE/T&DI 21-2

Establishes the minimum requirements necessary to achieve an acceptable level of safety and performance for an Automated People Mover (APM) system.

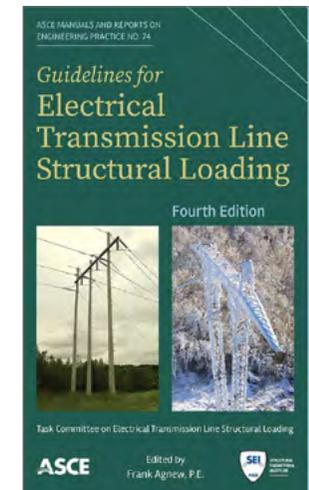
DESIGN OF CLOSE-FIT LINERS FOR THE REHABILITATION OF GRAVITY PIPES

Edited by Norman E. "Ed" Kampbell & Jadranka Simicevi

Sep 2021 110pp
9780784415801 Paperback £107.00 / €123.00

Manuals of Practice, Vol. 145

Provides a comprehensive source of information on the design of flexible, close-fit liners for the renewal or rehabilitation of pipes designed for gravity flow such as sanitary sewers, culverts, and storm sewers.



GUIDELINES FOR ELECTRICAL TRANSMISSION LINE STRUCTURAL LOADING

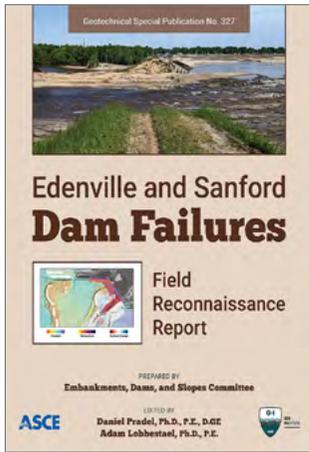
Fourth Edition

Edited by Frank Agnew

Aug 2021 322pp
9780784415566 Hardback £146.00 / €167.00

Manuals of Practice, Vol. 74

Fully revised and updated, *Guidelines for Electrical Transmission Line Structural Loading* provides the most current and relevant loading concepts and applications specific to transmission line design.



EDENVILLE AND SANFORD DAM FAILURES

Field Reconnaissance Report

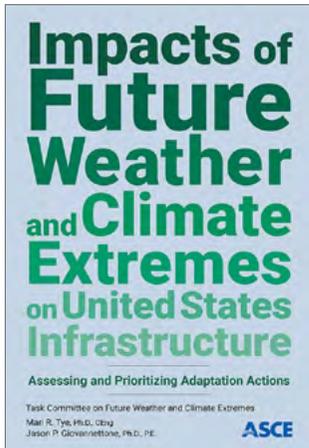
Edited by Daniel Pradel & Adam Lobbestael

Aug 2021 144pp
9780784415764 Paperback
£88.50 / €101.00

Geotechnical Special Publications, Vol. 327

Focuses on the application of multi-sensor techniques to collect perishable data immediately after a disaster. It illustrates a range of site characterization technologies

and extensive data analysis that will be of interest to practitioners, researchers, and community stakeholders in areas where old earth dams are nearing the end of their design life.



IMPACTS OF FUTURE WEATHER AND CLIMATE EXTREMES ON UNITED STATES INFRASTRUCTURE

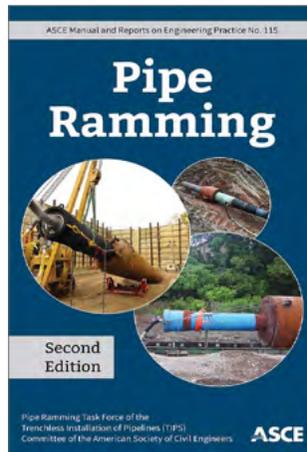
Assessing and Prioritizing Adaptation Actions

Mari R. Tye & Jason P. Giovannettone

Sep 2021 174pp
9780784415863 Paperback
£88.50 / €101.00

Summarizes the likely changes in various extreme meteorological and hydrological events and assesses the vulnerabilities of infrastructure within critical sectors and their

collective interdependencies. In addition, frameworks that decision makers can use to prioritize limited budgetary resources for adaptation efforts are reviewed.



PIPE RAMMING

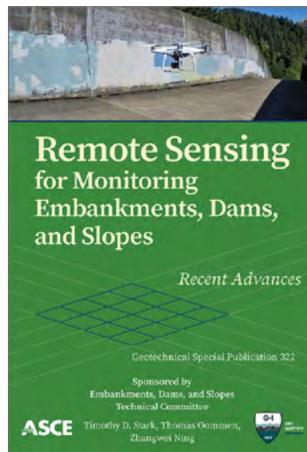
Second Edition

Edited by Glenn M. Boyce

Aug 2021 212pp
9780784415603 Hardback
£107.00 / €123.00

Manuals of Practice, Vol.115

Describes current pipe ramming practices in design and construction of pipelines under roads, railroads, streets, and other constructed and natural structures and obstacles. Providing both introductory and advanced information, MOP 115 will be valuable to practicing engineers, utility owners, contractors, and related professionals.



REMOTE SENSING FOR MONITORING EMBANKMENTS, DAMS, AND SLOPES

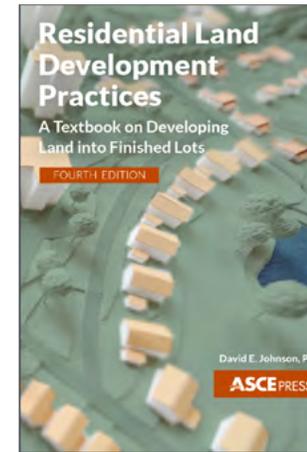
Recent Advances

Timothy D. Stark, Thomas Oommen & Zhangwei Ning

Apr 2021 114pp
9780784415726 Paperback
£88.50 / €101.00

Geotechnical Special Publications, Vol. 322

Provides information on selecting and deploying a monitoring network to assess the behaviour, geometry, total and differential EDS movement, and potential risks of the EDS movement on people and infrastructure.



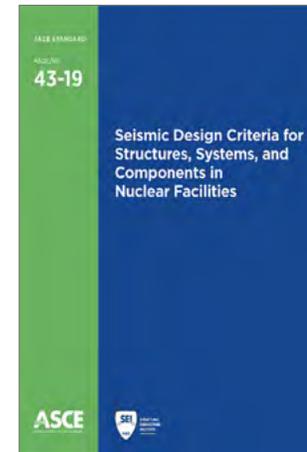
RESIDENTIAL LAND DEVELOPMENT PRACTICES

A Textbook on Developing Land into Finished Lots, Fourth Edition

David E. Johnson

Jan 2021 422pp
9780784415672 Paperback
£107.00 / €123.00

An easy-to-use guide to the basic concepts of land planning, subdivision design, and residential standards. This edition has been updated with five new chapters reflecting the social and economic changes in the last ten years.



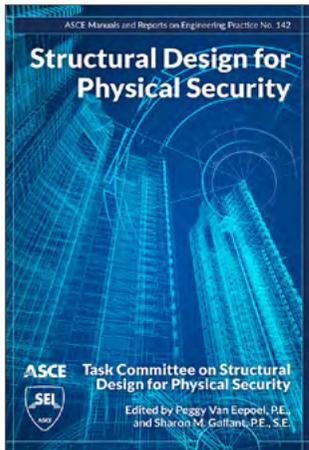
SEISMIC DESIGN CRITERIA FOR STRUCTURES, SYSTEMS, AND COMPONENTS IN NUCLEAR FACILITIES

American Society of Civil Engineers

Jan 2021 106pp
9780784415405 Paperback
£156.00 / €179.00

ASCE/SEI, 43-19

Provides stringent design criteria for multiple aspects associated with nuclear facilities. The goal of this standard is to ensure that nuclear facilities can withstand the effects of earthquake ground-shaking while retaining target performance goals.



STRUCTURAL DESIGN FOR PHYSICAL SECURITY

Task Committee on Structural Design for Physical Security

Edited by Peggy Van Eepoel & Sharon M. Gallant

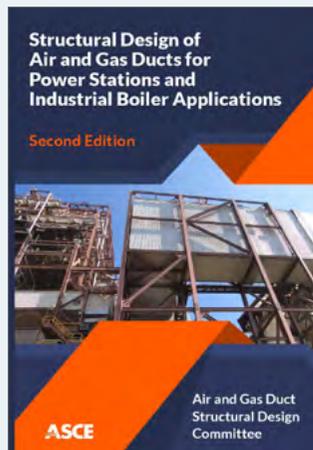
Aug 2021 458pp
9780784415498 Hardback
£176.00 / €201.00

Manuals and Reports on Engineering Practice, Vol. 142

Provides an overview of the typical design considerations encountered in new construction and renovation of facilities for physical security

tactics. This Manual of Practice provides a roadmap for designers and engineers involved in physical security. It contains references to other books, standards, and research.

HIGHLIGHT



STRUCTURAL DESIGN OF AIR AND GAS DUCTS FOR POWER STATIONS AND INDUSTRIAL BOILER APPLICATIONS

Second Edition

Air and Gas Duct Structural Design Committee

Aug 2021 286pp
9780784415580 Paperback
£97.95 / €112.00

Assists structural engineers in the layout and performance of the structural analysis and design of air and flue gas ductwork for natural gas, coal, oil,

reciprocating internal combustion engines (RICE), and all other fossil fuel power stations and industrial boiler applications.

UNDERGROUND UTILITIES FOR CONSTRUCTION PRACTITIONERS AND HOMEOWNERS

Ahmed Al-Bayati & Louis Panzer

Oct 2021 104pp
9780784415818 Paperback £53.95 / €62.00

ASCE Press

Discusses the use of utility location services for the millions of miles of underground utilities and how to protect this infrastructure while working around or replacing it.

IGI Global

HANDBOOK OF RESEARCH ON DEVELOPING SMART CITIES BASED ON DIGITAL TWINS

Edited by Matteo Del Giudice & Anna Osello

Apr 2021 400pp
9781799870913 Hardback £267.00 / €307.00

Presents in-depth research focused on the description of methods, processes, and tools that can be adopted to achieve smart city goals. This book presents a medium for disseminating innovative data management methods related to smart city topics, and highlights topics such as data visualization, a web-based ICT platform, and data-sharing methods.

HANDBOOK OF RESEARCH ON URBAN-RURAL SYNERGY DEVELOPMENT THROUGH HOUSING, LANDSCAPE, AND TOURISM

Edited by Aleksandra Krstić-Furundžić & Aleksandra Djukić

Aug 2021 365pp
9781522599333 Paperback £154.00 / €177.00
9781522599326 Hardback £249.00 / €286.00

Focuses on the applications and challenges of creating cooperation between urban and rural areas along various fields. This book highlights a range of topics, including suburbanization, weekend-residence zones, and homeostasis.

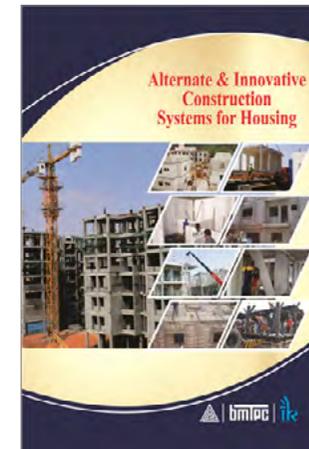
HEALTH AND WELL-BEING CONSIDERATIONS IN THE DESIGN OF INDOOR ENVIRONMENTS

Edited by Roberto A. González-Lezcano

Jun 2021 305pp
9781799872801 Paperback £149.00 / €172.00
9781799872795 Hardback £194.00 / €224.00

Addresses issues concerning indoor environmental quality, including air quality and ventilation, access to daylight and views, acoustic conditions, and control over lighting and thermal comfort, as well as the impact that this environment can have on human health and mental well-being.

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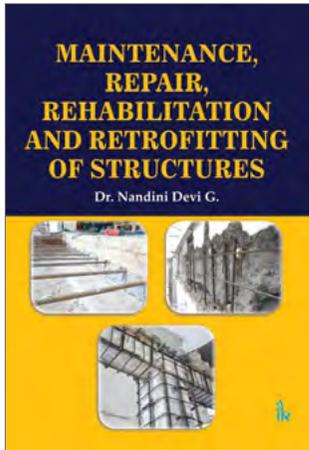


ALTERNATE & INNOVATIVE CONSTRUCTION SYSTEMS FOR HOUSING

BMTPC

Aug 2021 344pp
9788194867647 Paperback
£36.50 / €42.00

There is a need to identify innovative housing technologies which are cost effective, speedier, sustainable and disaster resilient and of higher quality. This book presents a collection of technical information on alternative and innovative housing construction systems.



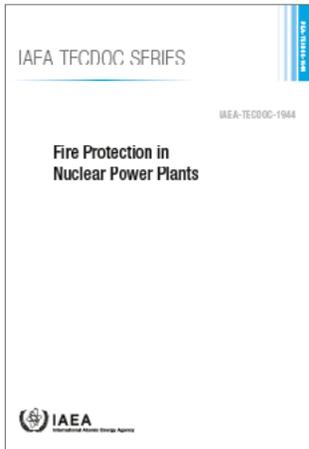
MAINTENANCE, REPAIR, REHABILITATION AND RETROFITTING OF STRUCTURES

Nandini Devi G.
 Aug 2021 890pp
 9788194867654 Paperback
 £67.95 / €78.00

Designed with the aim to give students an insight into the subject of concrete repair, its protection and strengthening. It is profusely illustrated with neat diagrams and actual site photographs.



International Atomic Energy Agency



FIRE PROTECTION IN NUCLEAR POWER PLANTS

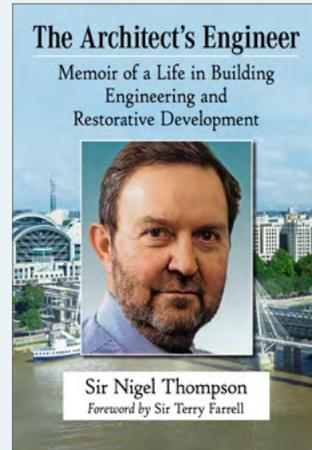
IAEA
 Jul 2021 120pp, 16 illustrations
 9789201348210 Paperback
 £14.95 / €18.00

IAEA TECDOC Series, 1944

This publication provides information and insights on lessons identified, and best practices to reflect the recent status of the worldwide nuclear power industry and to provide further detailed guidelines and assistance in enhancing the fire safety of operating NPPs.

McFarland

HIGHLIGHT

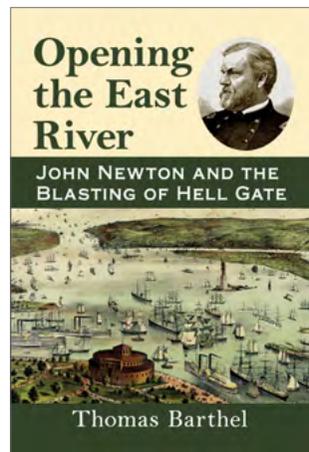


THE ARCHITECT'S ENGINEER
 Memoir of a Life in Building Engineering and Restorative Development

Sir Nigel Thompson
 Foreword by Sir Terry Farrell
 Jan 2022 277pp, 150 photos
 9781476685892 Paperback
 £36.50 / €42.00

Sir Nigel Thompson walked to school around the bomb craters of the London Blitz - it made him want to build things, rather than knock them down. Thompson's memoir details

his long career in architectural design and construction, and in restorative development.

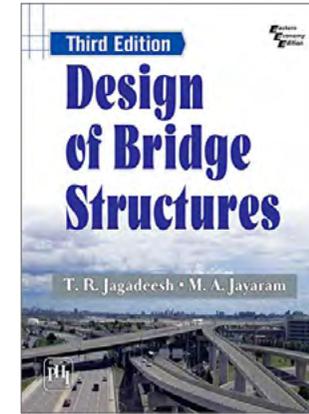


OPENING THE EAST RIVER
 John Newton and the Blasting of Hell Gate

Thomas Barthel
 Aug 2021 174pp, 35 photos
 9781476682983 Paperback
 £36.50 / €42.00

Chronicles the post-Civil War clearing of the East River in New York City, and the ingenuity of the Army engineer whose work was praised by the National Academy of Sciences.

PHI Learning



DESIGN OF BRIDGE STRUCTURES

Third Edition
 T.R. Jagadeesh & M. A. Jayaram
 Apr 2021 448pp
 9789389347609 Paperback
 £23.50 / €27.00

Provides comprehensive coverage of both theory and design practice within a single capsule. This third edition includes three recent topics in bridge engineering. Chapters on limit state method design of concrete bridges, flyovers, and smart structural health monitoring of bridges are also included.



INDETERMINATE STRUCTURAL ANALYSIS

Dipti Ranjan Sahoo
 Aug 2021 480pp
 9789354432958 Paperback £34.95 / €41.00

Intended to serve as a textbook for undergraduate students of civil engineering, this book is arranged in a logical and comprehensible manner that to help students in their learning. It provides a broad understanding of fundamental concepts, traditional methods and advanced methods of structural analysis.



TEXTBOOK OF GEOTECHNICAL ENGINEERING

Fourth Edition
 Iqbal H. Khan
 Feb 2021 277pp
 9789389347692 Paperback £34.95 / €41.00

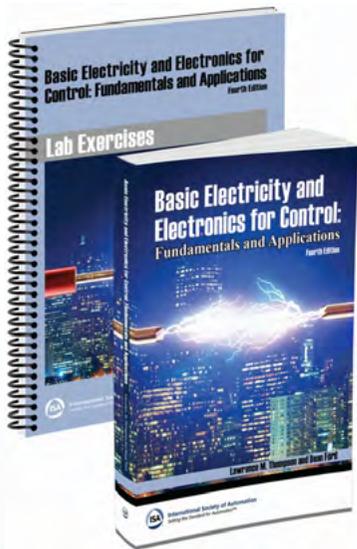
Integrating theory and practice, this book is suitable as a textbook for undergraduate students of civil engineering. This book contains plenty of worked-out numerical examples, provides a large number of objective type questions and exercises, and analyses field problems and case histories.



ELECTRONICS & COMMUNICATIONS ENGINEERING

ISA

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BASIC ELECTRICITY AND ELECTRONICS FOR CONTROL Fundamentals and Applications, Fourth Edition

Lawrence M. Thompson & Dean Ford

Dec 2021 450pp

9781643310770 Paperback £116.00 / €133.00

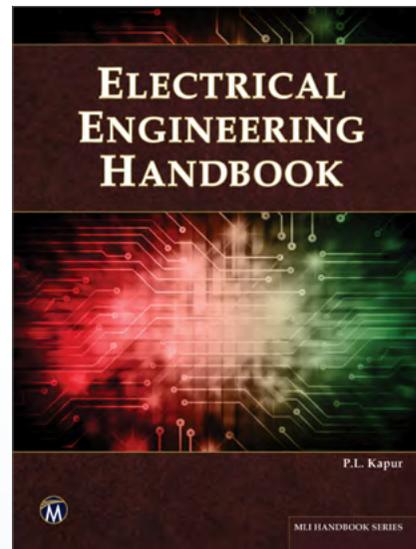
This time- and course-tested book is designed to familiarize readers with the concepts of electricity and electronics as they pertain to industrial measurement and control. This new fourth edition includes a lab workbook containing exercises that are designed to approximate "real-life" applications found in vocational, industrial, and occupational areas. Particular attention is given to ensuring safe and successful measurement of electrical quantities and a solid understanding of digital and analog meters, bridges, power supplies, solid state circuitry, oscilloscopes, and analog-to-digital convertors.

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ELECTRICAL ENGINEERING HANDBOOK

P.L. Kapur

Oct 2021 950pp

9781683921103 Hardback £79.50 / €90.00

MLI Handbook Series

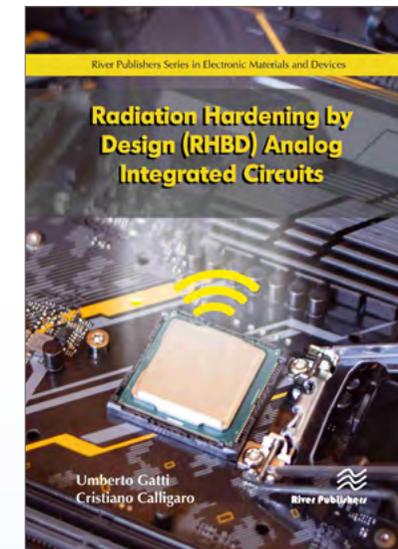
Provides over 6,500 multiple choice and objective-type questions and answers for all types of electrical engineering topics. The book covers basic electronics, electrical circuits, electromagnetic theory, refrigeration, currents, power plants, batteries, electric devices, measurements, control systems, computer fundamentals, and more.

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River Publishers

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RADIATION HARDENING BY DESIGN (RHBD) ANALOG INTEGRATED CIRCUITS

Umberto Gatti & Cristiano Calligaro

Oct 2021 300pp

9788770224192 Hardback £84.95 / €98.50

Electronic Materials and Devices

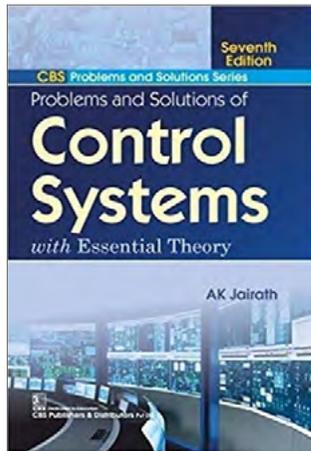
Intended for researchers and professionals interested in understanding how to design and make a preliminary characterization of radiation hardened (rad-hard) analog and mixed-signal circuits, exploiting standard CMOS manufacturing processes available from different silicon foundries and using different technology nodes.

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PROBLEMS AND SOLUTIONS OF CONTROL SYSTEMS

With Essential Theory, Seventh Edition

A.K. Jairath

Aug 2021 680pp
9788194898696 Paperback
£14.50 / €17.00

CBS Problems and Solutions Series

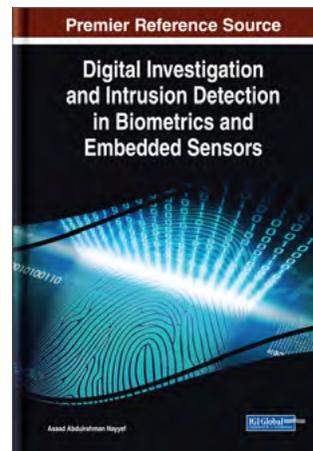
Provides a number of worked exercises to aid students in overcoming the difficulties faced in the study and analysis of automatic control systems engineering, with the help of step-by-step illustrations.

DESIGNING, CONSTRUCTING, AND PROGRAMMING ROBOTS FOR LEARNING

Edited by Nikleia Eteokleous & Efi Nisiforou

Oct 2021 315pp
9781799874447 Paperback £135.00 / €156.00
9781799874430 Hardback £176.00 / €203.00

Highlights the importance of integrating robotics in educational practice and presents various ways for how it can be achieved. This book further explains how 21st century skills and life skills can be developed through the hands-on experience of educational robotics.



DIGITAL INVESTIGATION AND INTRUSION DETECTION IN BIOMETRICS AND EMBEDDED SENSORS

Edited by Asaad Abdulrahman Nayyef

Aug 2021 320pp
9781799824725 Paperback
£163.00 / €187.00
9781799819448 Hardback
£212.00 / €244.00

Provides emerging research exploring the application of intelligent agents in improving the performance and development of integrated sensors and intrusion-detection systems. This

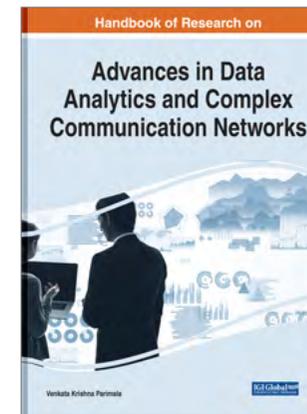
book features coverage on a broad range of topics, including image forensics, digital terrorism, and identity management.

EMERGING NANOTECHNOLOGY APPLICATIONS IN ELECTRICAL ENGINEERING

Ahmed Thabet Mohamed

Jul 2021 300pp
9781799885375 Paperback £154.00 / €177.00
9781799885368 Hardback £203.00 / €234.00

Presents innovative research on the methods and applications of nanoparticles in electrical engineering. This book discusses the wide array of uses nanoparticles have within electrical engineering and the diverse electric and magnetic properties that nanomaterials help make prevalent.



HANDBOOK OF RESEARCH ON ADVANCES IN DATA ANALYTICS AND COMPLEX COMMUNICATION NETWORKS

Edited by Venkata Krishna Parimala

Aug 2021 420pp
9781799876854 Hardback
£312.00 / €359.00

Discusses and addresses the issues and challenges of the development of various systems using data analytics and complex communication networks. The

chapters identify different issues, suggest feasible solutions to those identified issues, and present comprehensive information on emerging technologies related to data analytics.

HARNESSING THE POTENTIAL OF AI FOR MODELING 6G NETWORKS

Edited by Moses John Strydom

Aug 2021 300pp
9781799871972 Paperback £149.00 / €172.00
9781799849698 Hardback £194.00 / €224.00

Investigates artificial intelligence-enabled sixth generation (6G) wireless networks. This cutting-edge book covers all areas related to 6G research, including a heavy focus on the related emerging technologies.

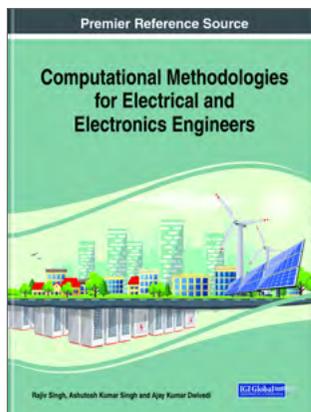
IMPLEMENTING DATA ANALYTICS AND ARCHITECTURES FOR NEXT GENERATION WIRELESS COMMUNICATIONS

Edited by Chintan Bhatt et al

May 2021 335pp
9781799869894 Paperback £149.00 / €172.00
9781799869887 Hardback £194.00 / €224.00

Addresses the existing and emerging theoretical and practical challenges in the design, development and implementation of big data algorithms, protocols, architectures and applications for next generation wireless communications, and their applications in smart cities.

IGI Global



COMPUTATIONAL METHODOLOGIES FOR ELECTRICAL AND ELECTRONICS ENGINEERS

Edited by Rajiv Singh, Ashutosh Kumar Singh & Ajay Kumar Dwivedi

Apr 2021 300pp
9781799833284 Paperback
£154.00 / €177.00
9781799833277 Hardback
£203.00 / €234.00

Presents research that provides a complete insight and overview of the application of intelligent

computational techniques in power and energy. This book features research on a wide range of topics, including artificial neural networks, smart grids, and soft computing.

PRINCIPLES AND APPLICATIONS OF NARROWBAND INTERNET OF THINGS (NB-IoT)

Edited by Sudhir K. Routray & Sasmita Mohanty

Jan 2021 436pp

9781799854913 Paperback £135.00 / €156.00

9781799847755 Hardback £176.00 / €203.00

Provides an in-depth understanding on the recent advancements of Narrowband IoT (NB-IoT), as well as the crucial roles of emerging low power IoT networks in various regions of the world. This book features research on a wide range of topics including security monitoring, sustainability, and cloud infrastructure.

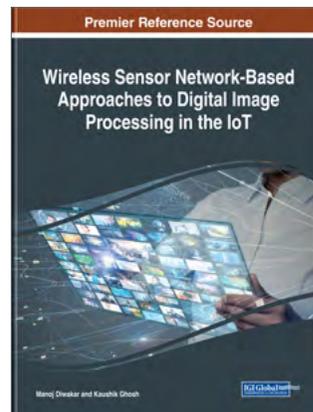
RESEARCH ANTHOLOGY ON SECURING MOBILE TECHNOLOGIES AND APPLICATIONS

Edited by Information Resources Management Association

Feb 2021 837pp

9781799885450 Hardback £312.00 / €359.00

Discusses the strategies, methods, and technologies being employed for security amongst mobile devices and applications. This comprehensive book explores the security support that needs to be required on mobile devices to avoid application damage, hacking, security breaches and attacks, or unauthorized accesses to personal data.



WIRELESS SENSOR NETWORK-BASED APPROACHES TO DIGITAL IMAGE PROCESSING IN THE IoT

Edited by Manoj Diwakar & Kaushik Ghosh

Aug 2021 300pp

9781799832829 Paperback

£135.00 / €156.00

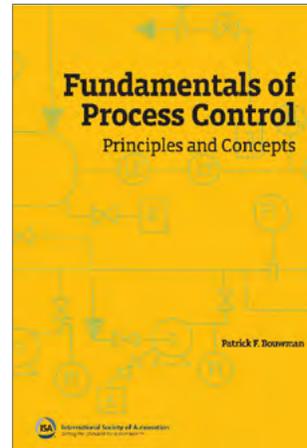
9781799832812 Hardback

£176.00 / €203.00

Presents research on the incorporation of digital image processing within the IoT field.

While highlighting topics such as energy-efficient routing, machine learning, and cryptography, this publication addresses the challenges of transmitting image data and explores further applications of sensor networks.

ISA



FUNDAMENTALS OF PROCESS CONTROL Principles and Concepts

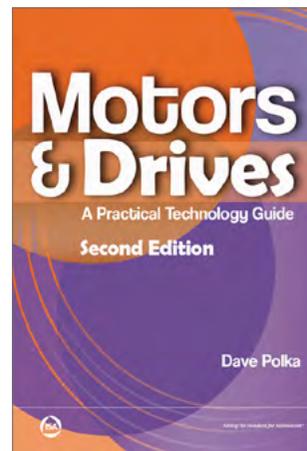
Patrick F. Bouwman

Dec 2021 480pp

9781643311395 Paperback

£117.00 / €133.00

An instructional introduction to modern-day industrial process control. The content is both practical and theoretical, with an emphasis on the basic principles and concepts of process control and how they are used in industrial applications.



MOTORS & DRIVES

A Practical Technology Guide, Second Edition

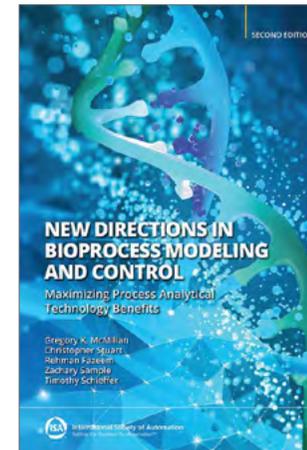
Dave Polka

Apr 2021 370pp

9781643310527 Paperback

£106.00 / €122.00

An invaluable resource for design engineers, automation and control specialists, maintenance technicians, and students. The basic theories of AC and DC drives haven't changed but the technology has, and this new edition takes a fresh look at how market demands have advanced motor and drive technology to lead the industry in new directions.



NEW DIRECTIONS IN BIOPROCESS MODELING AND CONTROL

Maximizing Process Analytical Technology Benefits, Second Edition

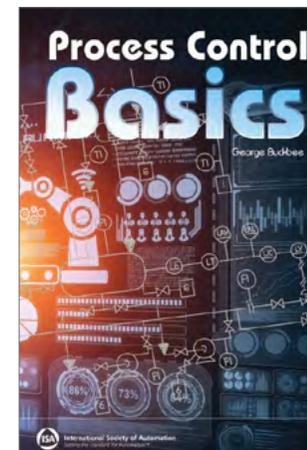
Gregory K. McMillan et al

Aug 2021 468pp

9781643311043 Paperback

£96.95 / €111.00

Provides practical, comprehensive knowledge on how to use the advances in analytical measurements and basic and advanced control to improve batch profiles and endpoint consistency.



PROCESS CONTROL BASICS

George Buckbee

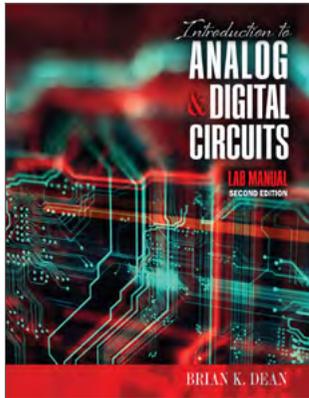
Sep 2021 198pp

9781643311302 Paperback

£67.50 / €77.00

Most people learn process control through hands-on plant experience, accompanied by a healthy dose of self-study. This is because textbooks generally address the mathematics of process dynamics and control, but often miss the practical aspects. This easy-to-read book fills the gap by focusing on practical real-world knowledge of process control systems, providing clear and concise examples, and providing practical advice for handling day-to-day maintenance and documentation.

Kendall Hunt Publishing Company



INTRODUCTION TO ANALOG & DIGITAL CIRCUITS

Lab Manual, Second Edition

Brian K. Dean

Jan 2021 277pp

9781792416095 Paperback

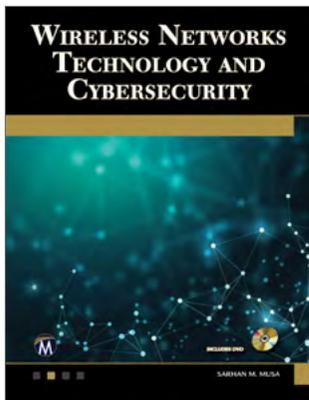
£121.00 / €139.00

Covers the fundamental elements of electrical circuits from an engineering perspective. The book is divided in two main sections: digital circuits and analogue circuits.

To strengthen the conceptual

understanding of the topics, each chapter includes an extensive and varied set of exercises and examples.

Mercury Learning and Information



WIRELESS NETWORKS TECHNOLOGY AND CYBERSECURITY

Sarhan M. Musa

Oct 2021 450pp

9781683922315 Paperback

£54.95 / €63.00

Designed for professionals and students of networking and cryptography, this book covers key concepts and issues related to emerging technology, such as the Internet of Things, WiMax, mobile access, cloud computing, and

more. Coverage of the latest protocols for Zigbee, Wibree/Bluetooth is included.

Morgan & Claypool Publishers

ARDUINO III Internet of Things

Steven F. Barrett

Mar 2021 237pp

9781636390833 Paperback £63.50 / €73.00

9781636390857 Hardback £81.50 / €94.00

Synthesis Lectures on Digital Circuits and Systems

Covers the Arduino microcontroller and the Arduino concept. The goal is to provide an accessible book on the rapidly evolving world of Arduino for a wide variety of audiences including students of the fine arts, middle and senior high school students, engineering design students, and practicing scientists and engineers.

ELECTRONIC MEASUREMENTS

A Practical Approach

Farzin Asadi & Kei Eguchi

Feb 2021 170pp

9781636390925 Paperback £54.50 / €63.00

9781636390949 Hardback £72.50 / €83.00

Synthesis Lectures on Electrical Engineering

Electronic measurement, the subject of this book, is the measurement of electronic quantities like voltage, current, resistance, inductance, and capacitance. This book provides practical information concerning the techniques in electronic measurements and knowledge on how to use the electronic measuring instruments appropriately.

SIGNALS AND SYSTEMS

A One Semester Modular Course

Khalid Sayood

Jul 2021 409pp

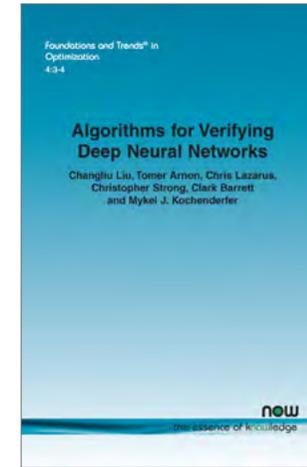
9781636391014 Paperback £89.95 / €104.00

9781636391038 Hardback £108.00 / €125.00

Synthesis Lectures on Signal Processing

Designed for use as a textbook for a one semester Signals and Systems class. It is sufficiently user friendly to be used for self-study as well.

Now Publishers



ALGORITHMS FOR VERIFYING DEEP NEURAL NETWORKS

Changliu Liu et al

Feb 2021 176pp

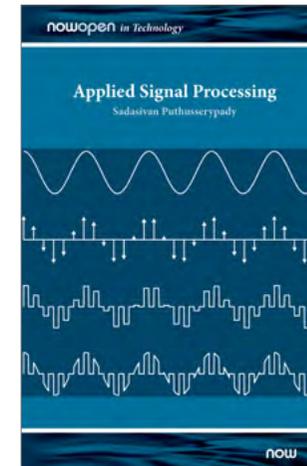
9781680837865 Paperback

£78.50 / €89.00

Foundations and Trends® in Optimization

Explores a class of methods that are capable of formally verifying properties of deep neural networks. The book introduces a unified mathematical framework for verifying neural networks, classify existing methods under this

framework, provide pedagogical implementations of existing methods, and compare those methods on a set of benchmark problems.



APPLIED SIGNAL PROCESSING

Sadasivan Puthusserypady

Apr 2021 500pp

9781680839784 Hardback

£114.00 / €130.00

NowOpen

Being an inter-disciplinary subject, Signal Processing has application in almost all scientific fields. *Applied Signal Processing* links between the analogue and digital signal processing domains.

A ROADMAP FOR US ROBOTICS – FROM INTERNET TO ROBOTICS 2020 EDITION

Henrik Christensen et al

Jul 2021 136pp
9781680838589 Paperback £71.50 / €81.00

Foundations and Trends® in Robotics

A summary of the main societal opportunities identified, the associated challenges to deliver desired solutions and a presentation of efforts to be undertaken to ensure that US will continue to be a leader in robotics both in terms of research innovation, adoption of the latest technology, and adoption of appropriate policy frameworks that ensure that the technology is utilized in a responsible fashion.

ROBOTS TO RE-CONSTRUCTION - THE ROADMAP TO ROBOTIZED ASBESTOS REMOVAL

Edited by Burkhard Corves & Tobias Haschke

Mar 2021 400pp
9781680837148 Hardback £102.00 / €116.00

NowOpen

Presents the findings and results of the Bots2ReC project, and should be useful for Construction and Robotics Engineers, as well as graduate level students and researchers active in these fields.

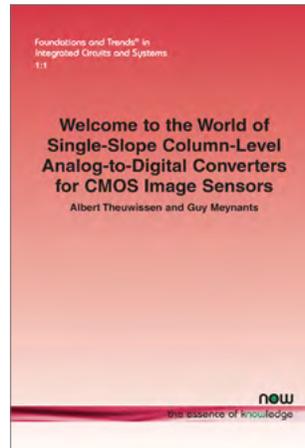
THE STATE OF INDUSTRIAL ROBOTICS Emerging Technologies, Challenges, and Key Research Directions

Lindsay Sanneman, Christopher Fourie & Julie A. Shah

Mar 2021 94pp
9781680838008 Paperback £54.95 / €63.00

Foundations and Trends® in Robotics

Robotics and related technologies are central to the ongoing digitization and advancement of manufacturing. In this work, the authors study the changing technological landscape of robotics and "internet-of-things" (IoT)-based connective technologies over the last 8-10 years in the wake of Industry 4.0.



WELCOME TO THE WORLD OF SINGLE-SLOPE COLUMN-LEVEL ANALOG-TO-DIGITAL CONVERTERS FOR CMOS IMAGE SENSORS

Albert Theuwissen & Guy Meynants

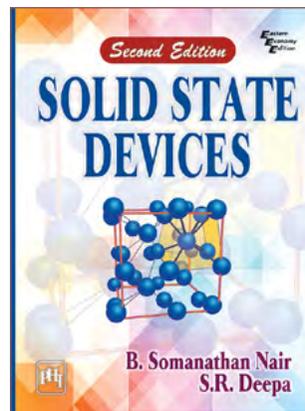
Jun 2021 84pp
9781680838121 Paperback
£51.50 / €58.00

*Foundations and Trends® in
Integrated Circuits and Systems*

Provides an overview and background of the various developments of single-slope

analog-to-digital converters (SS-ADC). Background information is given about the general CIS architecture, the CIS pixels and the noise sources present in a CIS. The book also describes the various architectures used in an SS-ADC.

PHI Learning



SOLID STATE DEVICES Second Edition

B. Somanathan Nair & S.R. Deepa

Feb 2021 564pp
9789387472273 Paperback
£39.50 / €46.00

This compact and accessible text explains the theory of solid state devices. It provides a detailed discussion of such topics as crystal structures of semiconductor materials, Miller indices, energy band theory of solids, energy level diagrams and mass action law.

Plunkett Research, Ltd.



PLUNKETT'S TELECOMMUNICATIONS INDUSTRY ALMANAC 2022

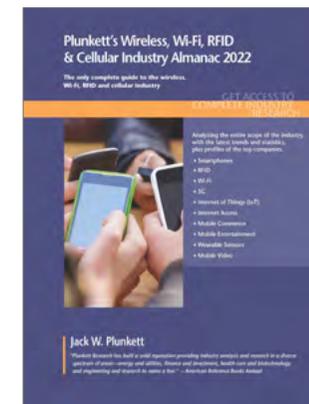
The Only Complete
Guide to the
Telecommunications Industry

Jack W. Plunkett

Sep 2021 491pp
9781628316063 Paperback
£310.00 / €340.00

A complete market research guide to the telecommunications industry—a tool for strategic planning, competitive intelligence,

employment searches or financial research. Features trends analysis, technologies, statistical tables and glossary.



PLUNKETT'S WIRELESS, WI-FI, RFID & CELLULAR INDUSTRY ALMANAC 2022

The Only Complete Guide to
the Wireless, WI-FI, RFID &
Cellular Industry

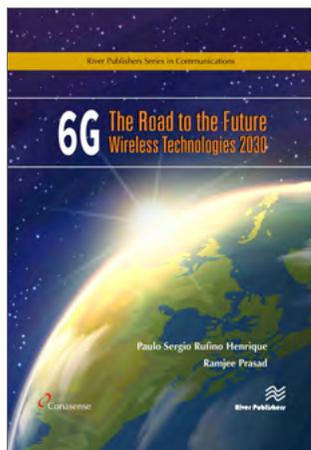
Jack W. Plunkett

Aug 2021 418pp
9781628316117 Paperback
£310.00 / €340.00

A complete market research guide to the wireless and smartphone telecommunications industry—for strategic planning, competitive

intelligence, employment searches or financial research. Provides profiles of 330 leading wireless, Wi-Fi, RFID and cellular industry firms worldwide, public and private, containing addresses and executive contacts.

River Publishers



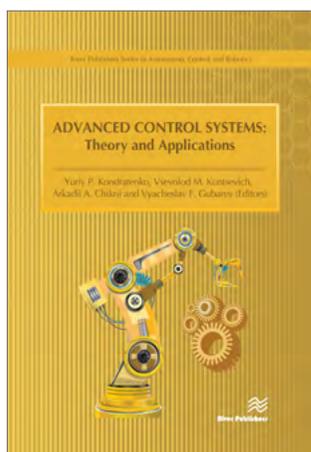
6G The Road to the Future Wireless Technologies 2030

Paulo Sergio Rufino Henrique &
Ramjee Prasad

May 2021 170pp
9788770224390 Hardback
£81.95 / €95.00

Communications

To fulfil its potential in the upcoming decade, 6G will undoubtedly require an architectural orchestration based on the amalgamation of existing solutions and innovative technologies. This book evaluates the state of the art of all current mobile generations' while looking into their core building blocks.



ADVANCED CONTROL SYSTEMS

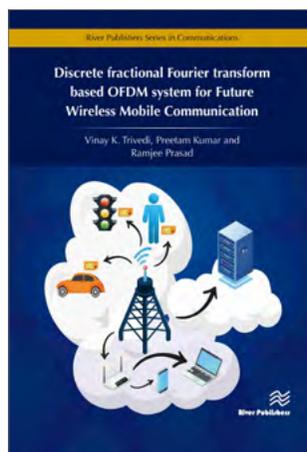
Theory and Applications

Edited by Yuriy P. Kondratenko et al

Jun 2021 300pp
9788770223416 Hardback
£81.95 / €95.00

Automation, Control and Robotics

Provides an overview of advanced research lines in control systems as well as in design, development and implementation methodologies for perspective control systems and their components in different areas of industrial and special applications.



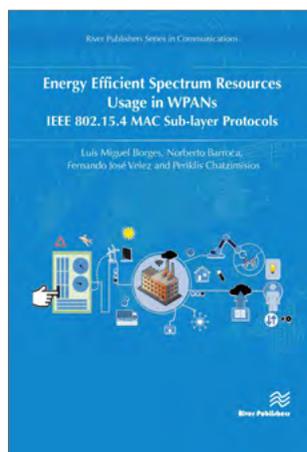
DISCRETE FRACTIONAL FOURIER TRANSFORM BASED OFDM SYSTEM FOR FUTURE WIRELESS MOBILE COMMUNICATION

Vinay K. Trivedi, Preetam Kumar &
Ramjee Prasad

Aug 2021 250pp
9788770221801 Hardback
£81.95 / €95.00

Communications

Introduces both OFDM and SC-FDMA, similarities, and differences between their transmitter and receiver operations, time-frequency representations, and low complexity joint equalization and CFO compensation (JECC). Advanced waveform candidates such as Filtered OFDM, FBMC, GFDM are also introduced.



ENERGY EFFICIENT SPECTRUM RESOURCES USAGE IN WPANS

**IEEE 802.15.4 MAC
Sub-layer Protocols**

Edited by Luis Miguel Borges et al

Aug 2021 250pp
9788770222143 Hardback
£81.95 / €95.00

Communications

After giving an overview of the WSN protocols and IEEE 802.15.4 standard, this book proposes IEEE 802.15.4 Medium Access Control (MAC) sub-layer performance enhancements by employing not only RTS/CTS combined with packet concatenation but also scheduled channel poling (MC-SCP).

AN INTRODUCTION TO ELECTRONIC WARFARE From the First Jamming to Machine Learning Techniques

Chi-Hao Cheng & James Tsui

Aug 2021 177pp
9788770224352 Hardback £84.95 / €95.00

Signal, Image and Speech Processing

Since its creation at the beginning of World War II, radars have transformed the practice of modern warfare. This book provides an accessible introduction to a broad range of radar and electronic technologies. Subjects covered range from early radar development to later technologies such as stealth techniques and machine learning.

MULTIRATE SIGNAL PROCESSING FOR COMMUNICATION SYSTEMS

Second Edition

Fredric J. Harris

Mar 2021 610pp
9788770222105 Hardback £84.95 / €98.50

Signal, Image and Speech Processing

Multirate signal processing can improve system performance and reduce costs in applications ranging from laboratory instruments, cable modems, wireless systems, satellites, Radar, Sonar, and consumer entertainment products. This second edition offers a systematic, clear, and intuitive introduction to multirate signal processing.

World Bank Group Publications

THE FIFTH GENERATION OF MOBILE TECHNOLOGY 5G as an Opportunity to Leapfrog Development

Je Myung Ryu et al

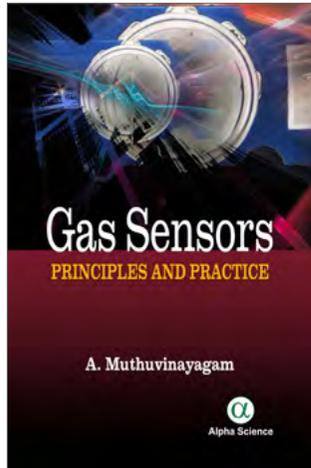
Dec 2021 200pp
9781464816048 Paperback £38.50 / €44.00

Sustainable Infrastructure

Explores the latest innovation in wireless technology, the tremendous opportunities that could be reaped from adopting 5G, the costs and challenges associated with 5G, and policy considerations for developing countries to most effectively deploy and utilize the 5G network.

ENERGY TECHNOLOGY

Alpha Science International



GAS SENSORS Principles and Practices

A. Muthuvinayagam
Dec 2021 200pp
9788184876956 Hardback
£44.95 / €55.00

To achieve a high sensitivity of gas sensors there is a need to develop active materials of a controllable particles size using cost effective, eco-friendly, simple wet chemical methods. This book inscribes the size controlled promising material for gas sensors with high sensitivity, rapid response and recovery time to LPG at low temperatures.

Only for sale in Albania, Armenia, Belarus, Bosnia & Herzegovina, Bulgaria, Croatia, Czech Republic, Estonia, Georgia, Hungary, Kosovo, Latvia, Lithuania, Macedonia, Moldova, Poland, Romania, Russia, Serbia, Slovakia, Slovenia, Ukraine

POWER QUALITY AND DISTRIBUTED GENERATION

P. Jayaprakash & D.P. Kothari
Dec 2021 300pp
9781783325443 Hardback £59.00 / €73.00

Intended as reading material to enhance the fundamentals of power quality issues, standards and various solutions. The importance of power quality in the distributed generation systems is discussed, as are various power quality issues such as sag, swell, interruptions, transients, and harmonics.

Only for sale in Albania, Armenia, Belarus, Bosnia & Herzegovina, Bulgaria, Croatia, Czech Republic, Estonia, Georgia, Hungary, Kosovo, Latvia, Lithuania, Macedonia, Moldova, Poland, Romania, Russia, Serbia, Slovakia, Slovenia, Ukraine

American Society of Mechanical Engineers

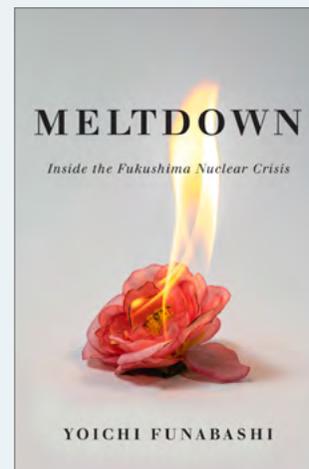
FUNDAMENTALS OF CANDU REACTOR PHYSICS

Wei Shen & Benjamin Rouben
Aug 2021 154pp
9780791884836 Hardback £78.50 / €89.00

With more than 75 years of combined working experience in the area of reactor physics and safety, the intention of the authors of this monograph is to provide a practical book on reactor physics, particularly for the safe operation of aged CANDU reactors, with minimal mathematics or equations.

Brookings Institution Press

★ HIGHLIGHT



MELTDOWN Inside the Fukushima Nuclear Crisis

Yoichi Funabashi
Mar 2021 622pp
9780815732594 Hardback
£31.95 / €36.00

Explores the human drama, and long-term lessons, of the Fukushima nuclear disaster. Based on interviews with more than 300 government officials, power plant operators, and military personnel during the years since the disaster, *Meltdown* is a meticulous recounting

and analysis of the human stories behind the response to the Fukushima disaster.

IGI Global

HANDBOOK OF RESEARCH ON STRATEGIC MANAGEMENT FOR CURRENT ENERGY INVESTMENTS

Edited by Serhat Yüksel & Hasan Dinçer
Jun 2021 405pp
9781799883357 Hardback £267.00 / €307.00

Analyses current trends in energy production and use and identifies energy investment strategies in order to support affordable and available energy for all. Chapters cover technological developments that contribute to the reduction of price in energy production as well as renewable energy sources that provide continuity in energy production.

HYDROGEN FUEL CELL TECHNOLOGY FOR STATIONARY APPLICATIONS

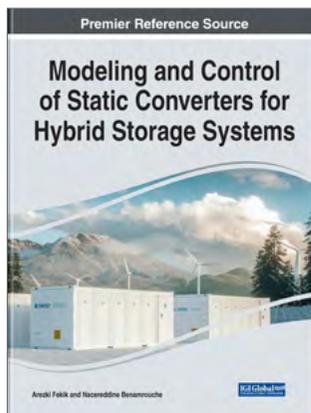
Edited by Raluca Andreea Felseghi & Ioan Aschilean
Apr 2021 300pp
9781799851301 Paperback £149.00 / €172.00
9781799849452 Hardback £194.00 / €224.00

Focuses on the advantages of hydrogen as a primary energy centre and addresses its use in the sustainable future of stationary applications. Highlighting a broad range of topics, including cost expectations, production methods, and social impact, this publication explores all aspects of the implementation and dissemination of fuel cell technology.

MODELING AND APPLICATIONS OF SOLAR PHOTOVOLTAIC THERMAL TECHNOLOGY

Edited by Chandra Shekhar Malv & Siddhartha Kosti
Aug 2021 277pp
9781799879176 Paperback £154.00 / €177.00
9781799879169 Hardback £203.00 / €234.00

Presents insights on the modeling and experimentation of solar energy devices and examines solar PVT technology. This book focuses on the different techniques and materials utilized to enhance the performance of solar energy devices, and the application of software like ANSYS/MATLAB/Open FOAM on solving the solar energy-related problem.



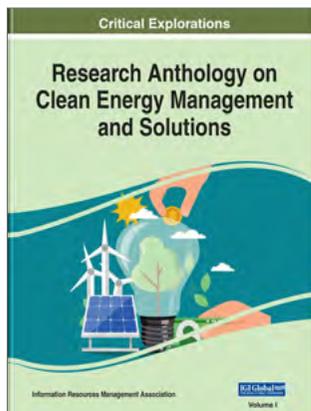
MODELING AND CONTROL OF STATIC CONVERTERS FOR HYBRID STORAGE SYSTEMS

Edited by Arezki Fekik & Nacereddine Benamrouche

Sep 2021 305pp
9781799874485 Paperback
£154.00 / €177.00
9781799874478 Hardback
£203.00 / €234.00

Covers the modeling, control theorems, and optimization techniques that solve many scientific

problems for researchers in the field of power converter control for renewable energy hybrid storage, placing particular emphasis on the modeling and control of static converters for hybrid storage systems.



RESEARCH ANTHOLOGY ON CLEAN ENERGY MANAGEMENT AND SOLUTIONS

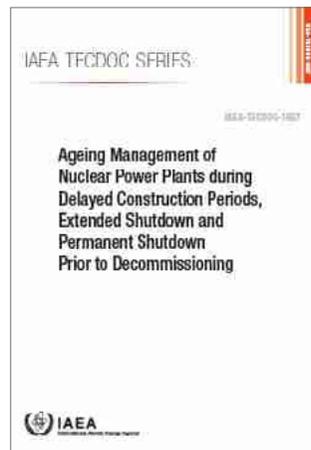
Edited by Information Resources Management Association

Aug 2021 2,002pp, 4-Volume Set
9781799891529 Hardback
£1450.00 / €1699.00

Provides research that explores strategies and techniques used in the energy production field to optimize energy efficiency in order to maintain clean and safe use while

delivering ample energy coverage. This anthology also seeks solutions to energy that have not yet been optimized or are still produced in a way that is harmful to the environment.

International Atomic Energy Agency



AGEING MANAGEMENT OF NUCLEAR POWER PLANTS DURING DELAYED CONSTRUCTION PERIODS, EXTENDED SHUTDOWN AND PERMANENT SHUTDOWN PRIOR TO DECOMMISSIONING

IAEA

Jul 2021 126pp
9789201079213 Paperback
£14.95 / €18.00

IAEA TECDOC Series, No. 1957

Provides a summarised description of internationally accepted practices.

Examples of the national approaches to ageing management for the specific periods of extended shutdown, delayed construction and post final shutdown as applied in the nuclear power plants of participating IGALL Member States are presented.



APPLICABILITY OF DESIGN SAFETY REQUIREMENTS TO SMALL MODULAR REACTOR TECHNOLOGIES INTENDED FOR NEAR TERM DEPLOYMENT

Light Water Reactors
High Temperature Gas Cooled Reactors

IAEA

Apr 2021 154pp
9789201308207 Paperback
£14.95 / €18.00

IAEA TECDOC, 1936

Focuses on the engineering

judgement necessary to apply each of the design requirements in SSR-2/1 (Rev. 1), and also the entire set of requirements, to light water cooled and high temperature gas cooled SMRs.

APPLICATION OF WIRELESS TECHNOLOGIES IN NUCLEAR POWER PLANT INSTRUMENTATION AND CONTROL SYSTEMS

IAEA

Jan 2021 104pp
9789201048196 Paperback £39.95 / €46.00

IAEA Nuclear Energy Series, No. NR-T-3.29

Summarises the results of an IAEA coordinated research project on the application of wireless technologies in the nuclear industry. The publication provides an overview of current knowledge, practices, operating experiences and benefits and challenges related to the use of the technology in instrumentation and control systems of nuclear facilities.

APPROACHES TO MANAGEMENT OF REQUIREMENT SPECIFICATIONS FOR NUCLEAR FACILITIES THROUGHOUT THEIR LIFE CYCLE

IAEA

Feb 2021 90pp
9789201261205 Paperback £14.95 / €18.00

IAEA TECDOC Series, No. 1933

Analyses and provides new insights into the different approaches followed by the nuclear industry for the effective management of nuclear facilities, as well as guidance to develop a comprehensive requirement management programme in nuclear facilities.

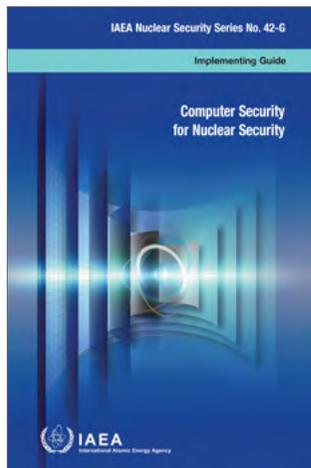
COMPUTER SECURITY ASPECTS OF DESIGN FOR INSTRUMENTATION AND CONTROL SYSTEMS AT NUCLEAR POWER PLANTS

IAEA

Apr 2021 57pp
9789201049193 Paperback £29.95 / €35.00

IAEA Nuclear Energy Series, No. NR-T-3.30

Defines the key concepts for computer security for instrumentation and control systems at nuclear facilities, explains the risk informed approach to computer security, and describes how computer security measures are applied throughout the I&C system life cycle.



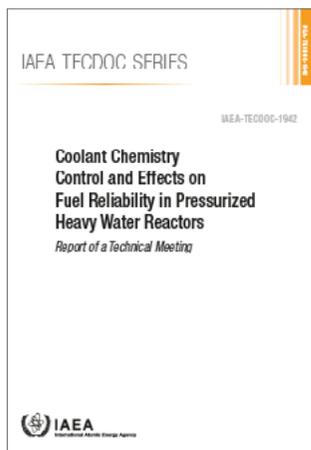
COMPUTER SECURITY FOR NUCLEAR SECURITY Implementing Guide

IAEA
Sep 2021 86pp
9789201211200 Paperback
£34.50 / €40.00

*IAEA Nuclear Energy Series,
No. 42-G*

This publication provides detailed guidance on developing, implementing, and integrating computer security as a key component of nuclear security; this guidance applies to computer security aspects of nuclear security

and its interfaces with nuclear safety and with other elements of a State's nuclear security regime.



COOLANT CHEMISTRY CONTROL AND EFFECTS ON FUEL RELIABILITY IN PRESSURIZED HEAVY WATER REACTORS

Report of a Technical Meeting

IAEA
Jul 2021 126pp
9789201340214 Paperback
£14.95 / €18.00

IAEA TECDOC Series, No. 1942

Providing useful information on optimized chemistry control for pressurized heavy water reactors (PHWRs), this publication presents

up to date knowledge on the topic, including corrosion phenomena observed in the primary heat transport system and consequent effects on fuel reliability in PHWRs.

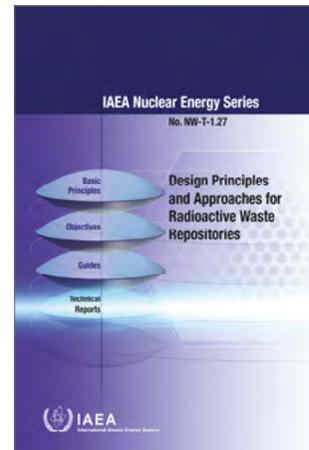
DESIGN OF FUEL HANDLING AND STORAGE SYSTEMS FOR NUCLEAR POWER PLANTS

IAEA

Apr 2021 53pp
9789201085191 Paperback £27.50 / €32.00

IAEA Safety Standards Series, No. SSG-63

Provides recommendations on how to meet the requirements of *Safety of Nuclear Power Plants: Design* in relation to fuel handling and storage systems. The publication addresses the design aspects of handling and storage systems for fuel that remain part of the operational activities of a nuclear reactor.



DESIGN PRINCIPLES AND APPROACHES FOR RADIOACTIVE WASTE REPOSITORIES

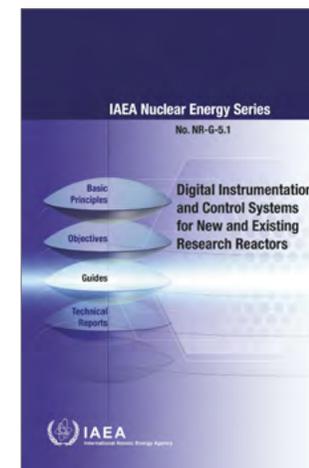
IAEA

Jan 2021 75pp
9789201129208 Paperback
£27.50 / €32.00

*IAEA Nuclear Energy Series,
No. NW-T-1.27*

A considerable level of international experience has been gained over the last decades in designing radioactive waste disposal facilities. This publication describes the approaches

and principles to be considered by the responsible organisations within a Member State involved in the planning and design of radioactive waste disposal facilities.



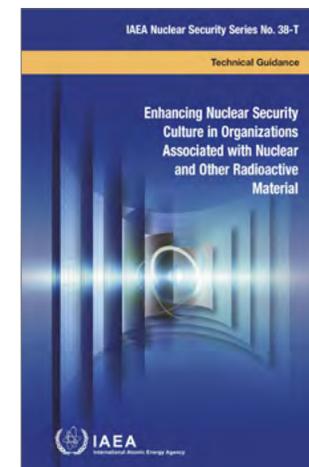
DIGITAL INSTRUMENTATION AND CONTROL SYSTEMS FOR NEW AND EXISTING RESEARCH REACTORS

IAEA

Jul 2021 77pp
9789201183200 Paperback
£29.50 / €34.00

*IAEA Nuclear Energy Series,
No. NR-G-5.1*

Provides engineering guidance on the design, and operational aspects of digital I&C systems for the refurbishment of existing facilities and for new research reactors.



ENHANCING NUCLEAR SECURITY CULTURE IN ORGANIZATIONS ASSOCIATED WITH NUCLEAR AND OTHER RADIOACTIVE MATERIAL

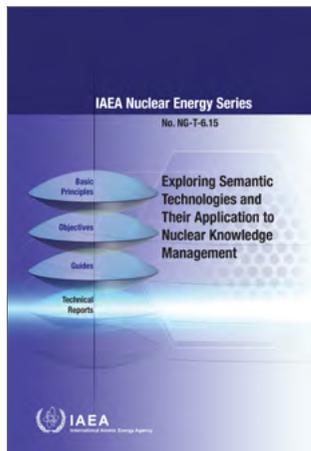
IAEA

Jul 2021 206pp
9789201053190 Paperback
£59.50 / €69.00

*IAEA Nuclear Security Series,
No. 38-T*

Building upon the understanding of the importance of a strong nuclear security culture, this publication provides practical

guidance on how to implement a systematic nuclear security culture enhancement programme.



EXPLORING SEMANTIC TECHNOLOGIES AND THEIR APPLICATION TO NUCLEAR KNOWLEDGE MANAGEMENT

IAEA

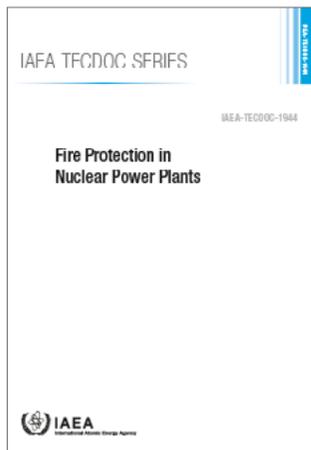
Jul 2021 62pp, 15 figures
9789201087195 Paperback
£31.50 / €36.00

IAEA Nuclear Energy Series, No. NG-T-6.15

Provides information to organisations dealing with the management of nuclear knowledge.

The publication covers semantic

information technologies, the Worldwide Web standards developed for interoperability, the construction of knowledge bases on the basis of distributed knowledge, and the development of knowledge driven applications.



FIRE PROTECTION IN NUCLEAR POWER PLANTS

IAEA

Jul 2021 120pp, 16 illustrations
9789201348210 Paperback
£14.95 / €18.00

IAEA TECDOC Series, No. 1944

Provides information and insights on lessons identified, and best practices to reflect the recent status of the worldwide nuclear power industry and to provide further detailed guidelines and assistance in enhancing the fire safety of operating NPPs.

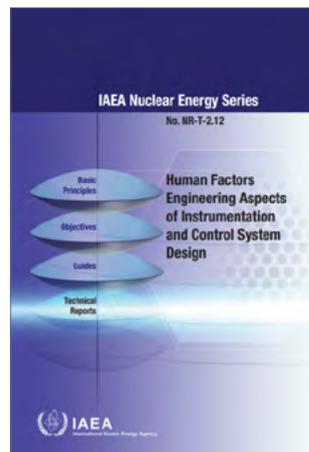
HANDBOOK ON THE DESIGN OF PHYSICAL PROTECTION SYSTEMS FOR NUCLEAR MATERIAL AND NUCLEAR FACILITIES

IAEA

Jul 2021 183pp
9789201054197 Paperback £51.95 / €60.00

IAEA Nuclear Security Series, No. 40-T

Provides comprehensive detailed guidance for States, competent authorities and operators on how to implement the recommendations and implementing guidance of existing IAEA Nuclear Security Series publications for an effective physical protection system (PPS) for nuclear facilities and nuclear materials in use and storage.



HUMAN FACTORS ENGINEERING ASPECTS OF INSTRUMENTATION AND CONTROL SYSTEM DESIGN

IAEA

Jul 2021 117pp
9789201215208 Paperback
£37.95 / €44.00

IAEA Nuclear Energy Series, No. NR-T-2.12

The focus of this publication is to integrate knowledge from the disciplines of human factors engineering (HFE) and I&C to emphasize an interdisciplinary

approach for the design of better HSIs and consequently improved human performance in nuclear power plants.

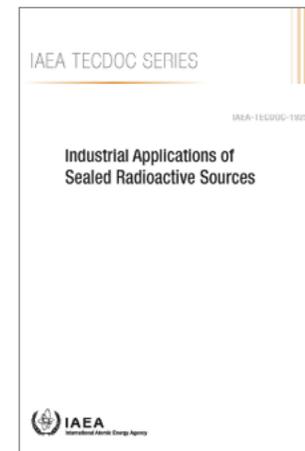
IMPACT OF FUEL DENSITY ON PERFORMANCE AND ECONOMY OF RESEARCH REACTORS

IAEA

Jul 2021 84pp, 34 figures
9789201203205 Paperback £29.95 / €35.00

IAEA Nuclear Energy Series, No. NF-T-2.7

Provides a preliminary evaluation of the impacts on research reactor performance and fuel costs from using high density fuel. Several case studies are presented and compared to illustrate these impacts.



INDUSTRIAL APPLICATIONS OF SEALED RADIOACTIVE SOURCES

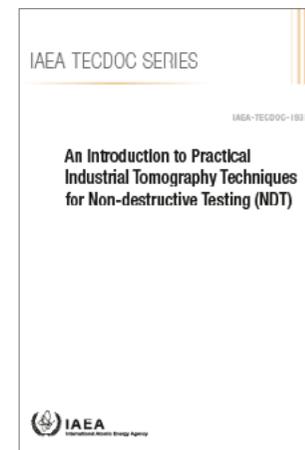
IAEA

Jan 2021 84pp
9789201170200 Paperback
£14.95 / €18.00

IAEA TECDOC Series, No. 1925

Describes several available techniques with sealed radioactive sources, by showing examples of their use in industrial applications and by demonstrating how they can be used to improve process efficiency and to save money. The focus is on

two major techniques with sealed radioactive sources: gamma scanning and neutron backscattering.



AN INTRODUCTION TO PRACTICAL INDUSTRIAL TOMOGRAPHY TECHNIQUES FOR NON-DESTRUCTIVE TESTING (NDT)

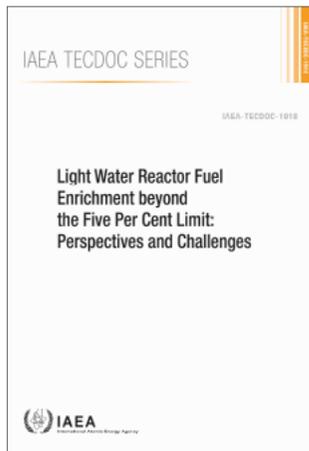
IAEA

Feb 2021 88pp
9789201209207 Paperback
£14.95 / €18.00

IAEA TECDOC Series, No. 1931

Provides an introduction to gamma computed tomography for non-destructive evaluation imaging in the simplest configuration. The

guide is intended to be of use to the non-destructive testing community, currently practicing conventional radiography techniques.



LIGHT WATER REACTOR FUEL ENRICHMENT BEYOND THE FIVE PER CENT LIMIT

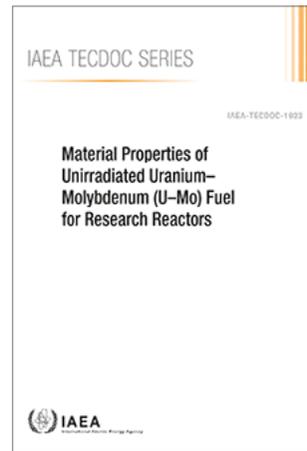
Perspectives and Challenges

IAEA

Jan 2021 56pp
9789201109200 Paperback
£14.95 / €18.00

IAEA TECDOC Series, No. 1918

The outcome of two technical meetings which compiles the results and conclusions in terms of benefits to be obtained from the use of high assay low enriched uranium (HALEU) fuel, with due consideration of safety issues that arise from its use.



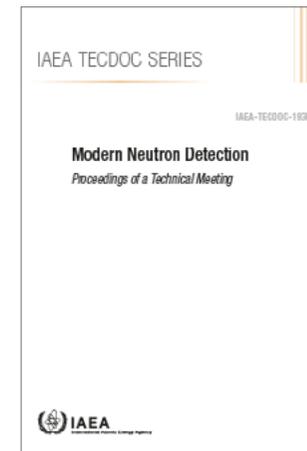
MATERIAL PROPERTIES OF UNIRRADIATED URANIUM-MOLYBDENUM (U-MO) FUEL FOR RESEARCH REACTORS

IAEA

Jan 2021 144pp
9789201157201 Paperback
£14.95 / €18.00

IAEA TECDOC Series, No. 1923

Presents the material properties of all unirradiated Uranium-Molybdenum (U-Mo) fuel constituents that are essential for fuel designers and reactor operators to evaluate the fuel's performance and safety for research reactors.



MODERN NEUTRON DETECTION

Proceedings of a Technical Meeting

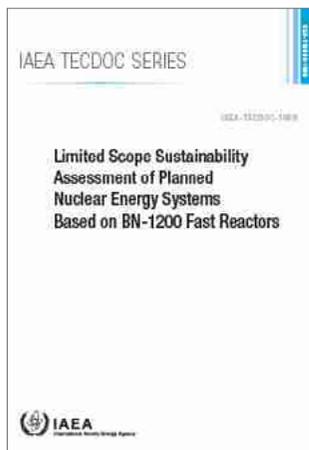
IAEA

Feb 2021 360pp
9789201265203 Paperback
£14.95 / €18.00

IAEA TECDOC Series, No. 1935

Covers new materials and detector electronics, in fields such as metrology, dosimetry, spectroscopy, fusion and scattering applications. The publication offers an overview of many of the current developments

in this wide field, together with a description of some of the front-end electronics and spectral unfolding techniques.



LIMITED SCOPE SUSTAINABILITY ASSESSMENT OF PLANNED NUCLEAR ENERGY SYSTEMS BASED ON BN-1200 FAST REACTORS

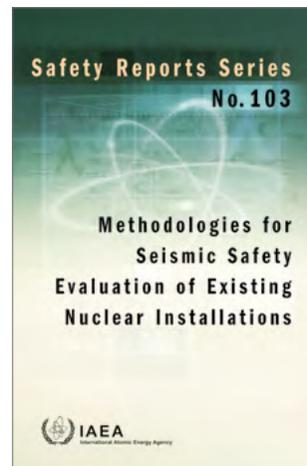
IAEA

Jul 2021 100pp
9789201091215 Paperback
£14.95 / €18.00

IAEA TECDOC Series, No. 1959

Provides an example of a limited scope INPRO sustainability assessment of an innovative nuclear energy system used the BN-1200

fast reactor as a case study. The INPRO assessment was performed at the full-depth criteria level and helped to identify actions for sustainable long term deployment of sodium cooled fast reactors.



METHODOLOGIES FOR SEISMIC SAFETY EVALUATION OF EXISTING NUCLEAR INSTALLATIONS

IAEA

Jan 2021 117pp
9789201072191 Paperback
£49.50 / €57.00

Safety Reports Series, No. 103

Covers the seismic safety evaluation programmes to be performed on existing nuclear installations in order to ensure that the required fundamental safety functions are available, with particular application to the safe shutdown of

reactors. It includes lessons learned based on the IAEA Action Plan for Strengthening Nuclear Safety.

HIGHLIGHT

NUCLEAR POWER REACTORS IN THE WORLD

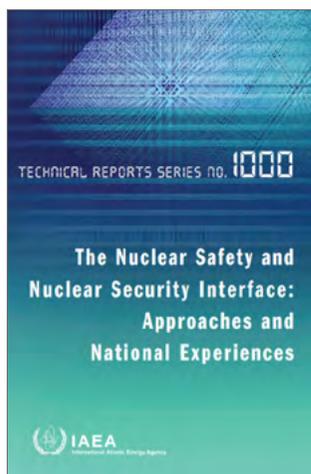
2021 Edition

IAEA

Sep 2021 84pp
9789201244215 Paperback
£14.95 / €18.00

Reference Data Series, No. 2

This is the 41st edition of *Reference Data Series No. 2*, which presents the most recent reactor data available to the IAEA. It contains summarized information as of the end of 2020 on power reactors operating, under construction and shut down as well as performance data on reactors operating in the IAEA Member States.



THE NUCLEAR SAFETY AND NUCLEAR SECURITY INTERFACE

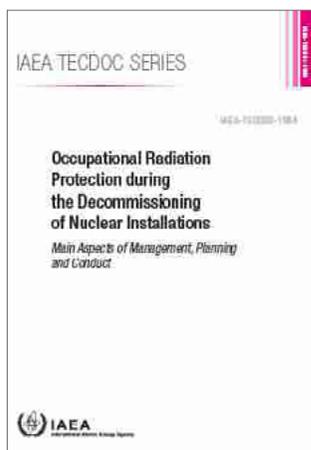
Approaches and National Experiences

IAEA

Jul 2021 59pp
9789201219206 Paperback
£26.50 / €30.00

Technical Reports Series, No. 1000

Developed from the exchange of information, experiences and practices by participating Member States at the IAEA Technical Meeting on the Safety and Security Interface – Approaches and National Experiences, held in Vienna in 2018.



OCCUPATIONAL RADIATION PROTECTION DURING THE DECOMMISSIONING OF NUCLEAR INSTALLATIONS

Main Aspects of Management, Planning and Conduct

IAEA

Jul 2021 62pp
9789201071217 Paperback
£14.95 / €18.00

IAEA TECDOC Series, No. 1954

Presents practical information on occupational radiation protection and examples with good practices from the nuclear industry on how to comply with the requirements established in IAEA *Safety Standards Series No. GSR Part 3, Radiation Protection and Safety of Radiation Sources: International Basic Safety Standards*.

OPERATING EXPERIENCE FROM EVENTS REPORTED TO THE IAEA/NEA FUEL INCIDENT NOTIFICATION AND ANALYSIS SYSTEM (FINAS)

IAEA

Feb 2021 70pp
9789201233202 Paperback £14.95 / €18.00

IAEA TECDOC Series, No. 1932

Provides a summary of the operating experience feedback from the events reported to the Fuel Incident Notification and Analysis System since it was launched in 1992. The publication has a focus on the root causes, lessons identified, and corrective actions taken to prevent the occurrence of similar events.

PERIODIC SAFETY REVIEW FOR RESEARCH REACTORS

IAEA

Feb 2021 117pp
9789201068194 Paperback £41.50 / €48.00

Safety Reports Series, No. 99

Provides information and guidance on the establishment of a process for periodic safety review for research reactors, including preparation, conduct of the review and reporting of results. In addition, the publication covers the regulatory assessment of these results.

PLANNING ENHANCED NUCLEAR ENERGY SUSTAINABILITY

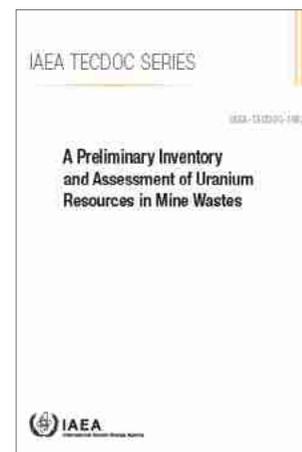
An INPRO Service to Member States Analysis Support for Enhanced Nuclear Energy Sustainability (ASENES)

IAEA

Dec 2021 51pp, 22 illustrations
9789201051219 Paperback £24.95 / €29.00

IAEA Nuclear Energy Series, No. NG-T-3.19

Highlights the links between this service and overall technical support to Member States for the planning and development of nuclear energy, and explains how it integrates with other IAEA services supporting knowledgeable decision making on nuclear power. An overview of analytical tools developed by INPRO for this purpose is also provided.



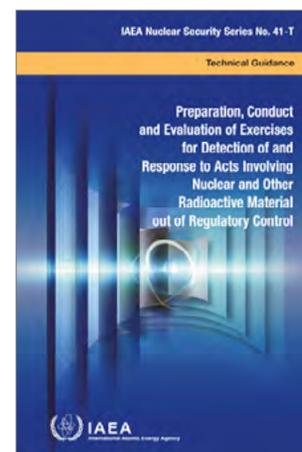
A PRELIMINARY INVENTORY AND ASSESSMENT OF URANIUM RESOURCES IN MINE WASTES

IAEA

Jul 2021 118pp, 18 Illustrations
9789201057211 Paperback
£14.95 / €18.00

IAEA TECDOC Series, No. 1954

Typically, discussions of the uranium production cycle are focused on either the economic extraction of resources, or on the environmental and remediation aspects as parallel aspects in a linear cradle-to-grave process. Here resource evaluation is expanded to the full life of the mine to include evaluation of resources in residual waste products.



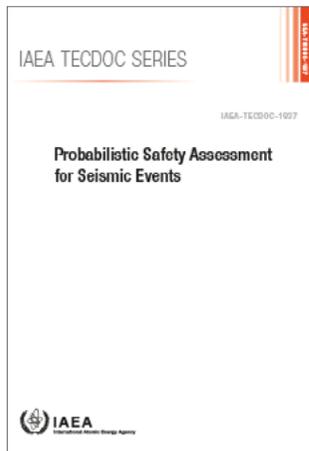
PREPARATION, CONDUCT AND EVALUATION OF EXERCISES FOR DETECTION OF AND RESPONSE TO ACTS INVOLVING NUCLEAR AND OTHER RADIOACTIVE MATERIAL OUT OF REGULATORY CONTROL

IAEA

Feb 2021 94pp
9789201056191 Paperback
£44.95 / €52.00

IAEA Nuclear Security Series, No. 41-T

Presents detailed concepts and procedures for the preparation, conduct and evaluation of exercises to test relevant nuclear security systems and measures, and provides useful templates and checklists that can be used to assist the exercise development process.

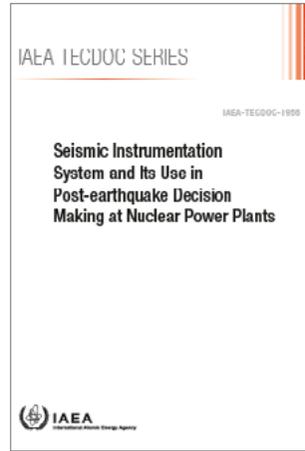


PROBABILISTIC SAFETY ASSESSMENT FOR SEISMIC EVENTS

IAEA
Feb 2021 106pp
9789201314208 Paperback
£14.95 / €18.00

IAEA TECDOC Series, No. 1937

Provides a detailed methodology for seismic probabilistic safety assessment (PSA) in line with the current international practices for seismic safety assessment of nuclear installations. Taking into account recommendations, this publication reflects the current state of practice in the area of seismic PSA.



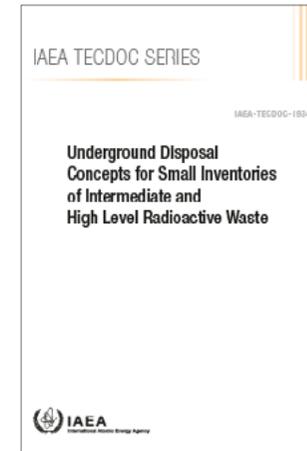
SEISMIC INSTRUMENTATION SYSTEM AND ITS USE IN POST-EARTHQUAKE DECISION MAKING AT NUCLEAR POWER PLANTS

IAEA
Jul 2021 246pp, 70 Illustrations
9789201077219 Paperback
£14.95 / €18.00

IAEA TECDOC Series, No. 1956

Presents information and experience related to the development of seismic instrumentation systems and the utilization of data recorded

by them, based on recent seismic events. The publication is intended to be a reference for developing effective post-earthquake actions/procedures.



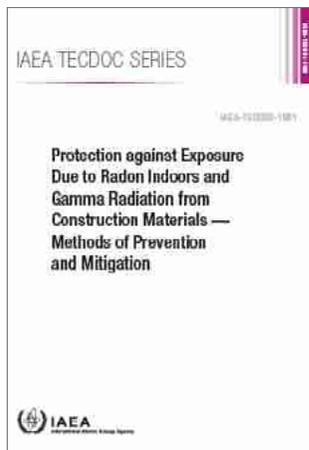
UNDERGROUND DISPOSAL CONCEPTS FOR SMALL INVENTORIES OF INTERMEDIATE AND HIGH LEVEL RADIOACTIVE WASTE

IAEA
Feb 2021 92pp
9789201263209 Paperback
£14.95 / €18.00

IAEA TECDOC Series, No. 1934

Explores disposal concepts that can be applicable for Member States with small inventories of intermediate and high level waste. The concepts

are evaluated for their potential suitability in a number of situations. Case studies are included, some of which look at facilities that are being planned or operated.



PROTECTION AGAINST EXPOSURE DUE TO RADON INDOORS AND GAMMA RADIATION FROM CONSTRUCTION MATERIALS

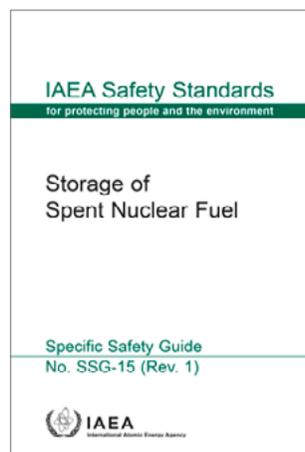
Methods of Prevention and Mitigation

IAEA
Jul 2021 62pp
9789201055217 Paperback
£14.95 / €18.00

IAEA TECDOC Series No. 1951

Presents a review of technical solutions providing both corrective

actions and preventive measures to reduce the ingress of radon indoors. A description of methods, design and implementation of measures to reduce ingress of radon into buildings, and of the materials and equipment used in these solutions is included.

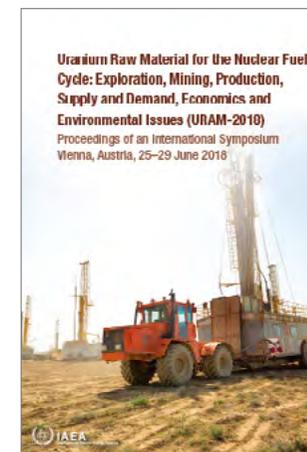


STORAGE OF SPENT NUCLEAR FUEL

Specific Safety Guide
IAEA
Feb 2021 107pp
9789201061195 Paperback
£36.50 / €42.00

IAEA Safety Standards Series, No. SSG-15 (Rev. 1)

Provides recommendations and guidance on the storage of spent nuclear fuel. The publication covers all types of storage facility and all types of spent fuel from nuclear power plants and research reactors.



URANIUM RAW MATERIAL FOR THE NUCLEAR FUEL CYCLE: EXPLORATION, MINING, PRODUCTION, SUPPLY AND DEMAND, ECONOMICS AND ENVIRONMENTAL ISSUES (URAM-2018)

Proceedings of an International Symposium Held in Vienna, Austria, 25–29 June 2018

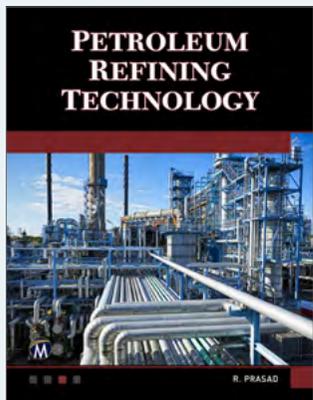
IAEA
Feb 2021 90pp
9789201306203 Paperback
£24.50 / €28.00

Proceedings Series, STI/PUB/1925

Analyses uranium supply/demand scenarios and discusses new developments in uranium geology, exploration, mining, milling and processing, as well as environmental requirements for uranium operations and site decommissioning.

Mercury Learning and Information

★ HIGHLIGHT

**PETROLEUM REFINING TECHNOLOGY**

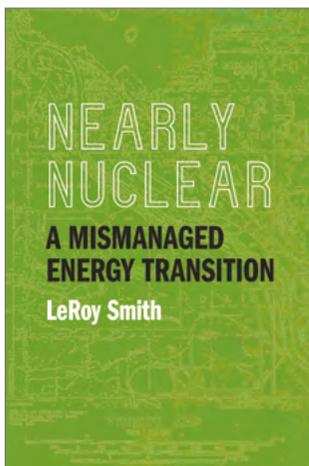
Ram Prasad

Nov 2021 402pp

9781683921066 Hardback
£43.50 / €50.00

Provides an overview of the methods used in petroleum refining. Selected topics include exploration, production and refining, crude oils, quality control, petroleum products, thermal conversion, manufacture of bitumens, pollution control in refineries, and more.

Michigan State University Press

**NEARLY NUCLEAR
A Mismanaged
Energy Transition**

LeRoy Smith

Sep 2021 290pp

9781611863987 Paperback
£23.95 / €27.00

Providing an examination of both the challenges and importance of renewable energy, this book will be of value to anyone interested in grappling with the complexities of our ongoing efforts to eliminate fossil fuels in favour of clean renewable energy.

Morgan & Claypool Publishers

OIL & GAS PRODUCED WATER MANAGEMENT

Eric M.V. Hoek et al

May 2021 91pp

9781681738277 Paperback £31.95 / €37.00

9781681738291 Hardback £49.95 / €58.00

Synthesis Lectures on Sustainable Development

Water is no longer a problem to be delegated to a third-party disposal or treatment vendor, but is becoming a cornerstone of oil and gas production. In this review, the authors summarize produced water characteristics, regulations and management options, and produced water treatment fundamentals.

PennWell Books

Plunkett Research, Ltd.

**PLUNKETT'S ENERGY & UTILITIES INDUSTRY
ALMANAC 2022****Energy & Utilities Industry Market Research, Statistics, Trends and Leading Companies**

Jack W. Plunkett

Dec 2021 672pp

9781628315967 Paperback £310.00 / €340.00

Market research guide to the energy & utilities (including oil & gas) industry—for strategic planning, competitive intelligence, employment searches or financial research. Contains trends analysis, globalization, trade, statistical tables and an industry glossary. Includes profiles of the Energy 500 Firms, featuring addresses, phone numbers and executive names.

**PLUNKETT'S GREEN TECHNOLOGY INDUSTRY
ALMANAC 2021**

Jack W. Plunkett

Apr 2021 390pp

9781628315622 Paperback £310.00 / €340.00

Plunkett's GreenTech market research includes an analysis of trends and markets, industry statistics, globalization and investment, including venture capital. Covers green initiatives in sectors ranging from real estate to consumer products to transportation and energy, along with technologies, research and development.

**PLUNKETT'S SOLAR POWER, WIND POWER &
RENEWABLE ENERGY INDUSTRY ALMANAC 2022****Solar Power, Wind Power & Renewable Energy Industry Market Research, Statistics, Trends and Leading Companies**

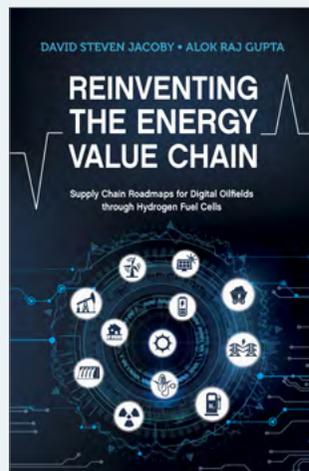
Jack W. Plunkett

Dec 2021 414pp

9781628316308 Paperback £310.00 / €340.00

Market research guide to the business side of renewable, alternative & hydrogen energy – a tool for strategic planning, competitive intelligence, employment searches or financial research. Contains trends, statistical tables, and an industry glossary.

★ HIGHLIGHT

**REINVENTING THE
ENERGY VALUE CHAIN
Supply Chain Roadmaps for
Digital Oilfields through
Hydrogen Fuel Cells**David Steven Jacoby &
Alok Raj Gupta

Sep 2021 391pp

9781955578004 Hardback
£107.00 / €124.00

Provides a toolbox of techniques to successfully manage the range of complex tradeoffs that are inherent in capital projects and operations & maintenance across energy technologies and to apply

best practice techniques to emerging energy industries - from the small to the large project, and from solar to nuclear and everything in between.

River Publishers

GREEN ENERGY TECHNOLOGIES FOR A SUSTAINABLE FUTURE*Edited by Yashvir Singh, Prateek Negi & Wei Hsin Chen***Oct 2021 300pp****9788770226349 Hardback £84.95 / €98.50***River Publishers Series in Energy Sustainability and Efficiency*

Examines the key aspects that will define future sustainable energy systems: biofuels, green nanomaterials and the production of bioethanol and bio-hydrogen from bio-waste. The book clearly illustrates the requirement for a unified engineering approach based on solid mathematical and engineering principles.

THERMAL AND RELIABILITY CRITERIA FOR NUCLEAR FUEL SAFETY*Maksym Maksymov, Svitlana Alyokhina & Oleksandr Brunetkin***Jul 2021 250pp****9788770224017 Hardback £81.95 / €95.00***Chemical, Environmental, and Energy Engineering*

Covers basic approaches to the nuclear fuel state of energy reactors in the last stages of the nuclear fuel cycle, these have been developed by the authors based on Ukrainian Nuclear Power Plant (NPP) operational experience. This is essential reading for anyone concerned with NPP maintenance and safety.

Rutgers University Press

TOXIC AND INTOXICATING OIL**Discovery, Resistance, and Justice in Aotearoa New Zealand***Patricia Widener***Mar 2021 270pp****9781978805033 Paperback £29.95 / €35.00****9781978805040 Hardback £94.95 / €108.00**

By analysing the intersections of a social movement and the political economy of oil, Patricia Widener reveals a nuanced story of oil resistance and promotion at a time when many anti-drilling activists believed themselves to be on the front lines of the industry's inevitable decline.

Salem Press

PRINCIPLES OF ENERGY*Salem Press***Jun 2021 400pp****9781642657647 Hardback £149.00 / €172.00***Principles of Science*

Energy, the capacity of an object to do work, is one of the most fundamental principles, affecting nearly every aspect of life on this planet. This volume in the Principles of Science series provides readers with a comprehensive introduction to energy, covering basic concepts, possibilities, ethical issues, and potential consequences of energy.

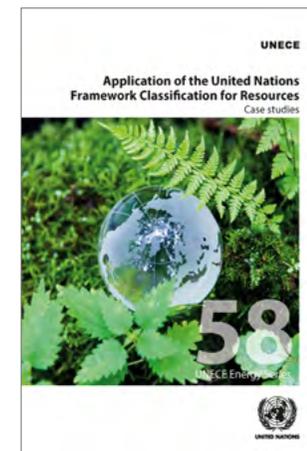
United Nations Publications

2018 ELECTRICITY PROFILES*United Nations Department for Economic and Social Affairs***Mar 2021 236pp****9789212591612 Paperback £49.95 / €58.00**

Contains electricity profiles for about 230 countries and territories, providing detailed information on production, trade and consumption of electricity, net installed capacity and thermal power plant input and efficiency for most countries, on an internationally comparable basis.

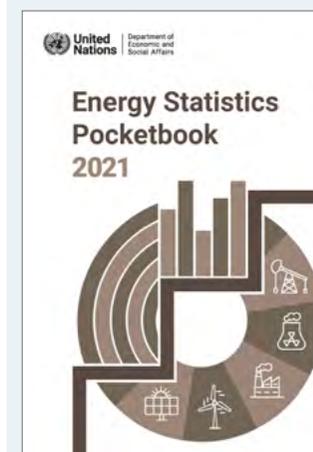
2018 ENERGY BALANCES*United Nations Department for Economic and Social Affairs***Mar 2021 380pp****9789212591629 Paperback £63.50 / €73.00**

Contains energy balances for about 220 countries and territories, showing production, trade, transformation and consumption (by sector) in energy units for all energy products. The report presents energy data for countries and areas in a format which shows the overall picture of the production, trade, transformation and consumption.

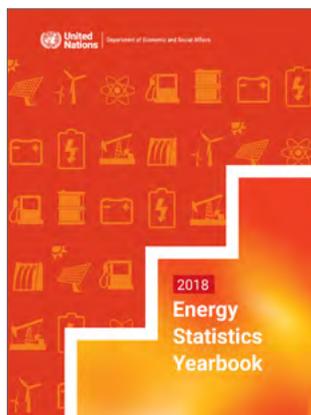
**APPLICATION OF THE UNITED NATIONS FRAMEWORK CLASSIFICATION FOR RESOURCES****Case Studies***United Nations Economic Commission for Europe***Jan 2021 208pp****9789211172218 Paperback****£41.50 / €47.00***ECE Energy Series, Vol. 58*

Successful resource management in the modern world requires relevant information on the resource base,

understanding of the factors that are responsible for progressing the resources to production, and adequate framework conditions. A series of case studies on various resource projects from different countries are presented in this report.

HIGHLIGHT**ENERGY STATISTICS POCKETBOOK 2021***United Nations Department for Economic and Social Affairs***Apr 2021 76pp****9789212591643 Paperback****£22.95 / €26.00**

The fourth in a series of pocketbook compilations on energy statistics designed to highlight the availability of data on various aspects of energy production, transformation and use and its linkages to other key statistics.



ENERGY STATISTICS YEARBOOK 2018

United Nations Department for Economic and Social Affairs

Apr 2021 576pp
9789212591636 Paperback
£145.00 / €167.00

Presents annual data for 230 countries and areas for 2015-2018 on production, trade and consumption of energy: solids, liquids, gaseous fuels, electricity and heat, covering both renewable and non-renewable sources of energy. Per capita consumption series are also provided for all energy products.

ENGINEERING FOR SUSTAINABLE DEVELOPMENT

Delivering on the Sustainable Development Goals

United Nations Educational Scientific and Cultural Organization

Jun 2021 186pp
9789231004377 Paperback £63.50 / €73.00

Highlights the crucial role of engineering in achieving each of the 17 SDGs by presenting case studies and approaches of the innovations that are shaping our world. Providing a snapshot of these emerging technologies, the report demonstrates how engineering solutions can address pressing human and planetary needs.

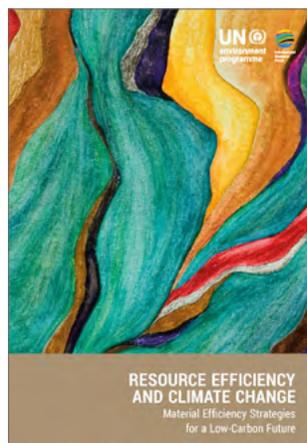
HARD TALKS IN ECE COUNTRIES ON HOW TO INCREASE RENEWABLE ENERGY UPTAKE

United Nations Economic Commission for Europe

Mar 2021 70pp
9789211172300 Paperback £41.50 / €47.00

ECE Energy Series, Vol. 62

Presents an overview of a series of 'Hard Talks' held in Azerbaijan, Bosnia and Herzegovina, Georgia, Kazakhstan, Serbia and Ukraine in 2016-2019. They promoted demand-driven debates held in each country on what is needed to change for the private sector to invest in sustainable energy and increase the uptake of renewable energy.



RESOURCE EFFICIENCY AND CLIMATE CHANGE

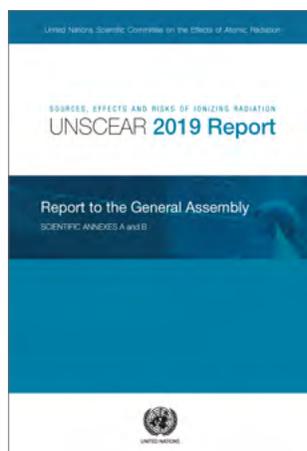
Material Efficiency Strategies for a Low-Carbon Future

United Nations Environment Programme

Jun 2021 172pp
9789211587449 Paperback
£41.50 / €47.00

Presents a rigorous assessment of the contribution of material efficiency to GHG abatement strategies. More concretely, the report assesses the reduction potential of GHG emissions from material efficiency strategies applied in residential buildings and light duty vehicles, and reviews policies that address these strategies.

material efficiency strategies applied in residential buildings and light duty vehicles, and reviews policies that address these strategies.



SOURCES, EFFECTS AND RISKS OF IONIZING RADIATION, UNSCEAR 2019 REPORT

Report to the General Assembly, with Scientific Annexes

United Nations Scientific Committee on the Effects of Atomic Radiation

Apr 2021 308pp
9789211391848 Paperback
£72.50 / €84.00

Assesses the levels and effects of exposure to ionizing radiation. The scientific annexes provide the supporting scientific rationale for

UNSCEAR's 2019 report. Annex A focuses on evaluation of selected health effects and inference of risk. Annex B focuses on the evaluation of lung cancer from exposure to radon.

TECHNOLOGY AND INNOVATION REPORT 2021

Catching Technological Waves - Innovation With Equity

United Nations Conference on Trade and Development & Division on Technology and Logistics

Jul 2021 196pp
9789211130126 Paperback £44.95 / €52.00

Examines the possibility of frontier technologies, such as AI robotics and gene-editing, widening existing inequalities and creating new ones. The report argues that frontier technologies are essential for sustainable development but they also could accentuate initial inequalities.

TOWARDS SUSTAINABLE RENEWABLE ENERGY INVESTMENT AND DEPLOYMENT

Trade-offs and Opportunities With Water Resources and the Environment

United Nations Economic Commission for Europe

Aug 2021 68pp
9789211172317 Paperback £41.50 / €47.00

ECE Energy Series, Vol. 63

A toolkit for renewable energy policy-makers and investors which builds on the work already done by the United Nations Economic Commission for Europe (ECE) towards sustainably increasing renewable energy investments.

Woodhead Publishing India

EBOOK AVAILABLE

WIND ENERGY

S. C. Bhatia, Puneet Mangla & Sarvesh Devraj

Mar 2021 292pp
9788193644621 Hardback £118.00 / €134.00

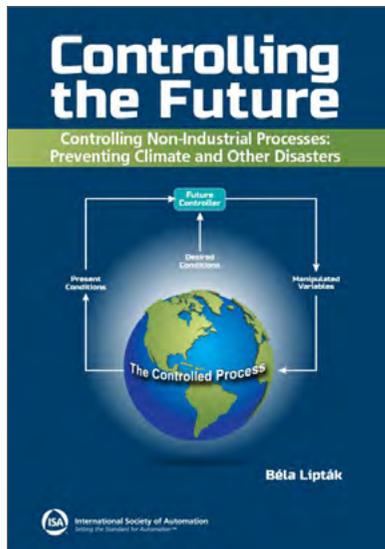
Woodhead Publishing India in Energy

Discusses the global status of wind energy, wind turbine technology, planning wind projects, wind resource assessment, off shore wind energy, major failures in wind turbines, wind energy based desalination processes, environmental and ecological aspects of wind energy, the carbon footprint of wind energy, and barriers to wind energy.

ENVIRONMENTAL SCIENCE, ENGINEERING & TECHNOLOGY

ISA

★ HIGHLIGHT

**CONTROLLING THE FUTURE****Controlling Non-Industrial Processes: Preventing Climate and Other Disasters***Béla Lipták*

Nov 2021 450pp

9781643311425 Paperback £123.00 / €140.00

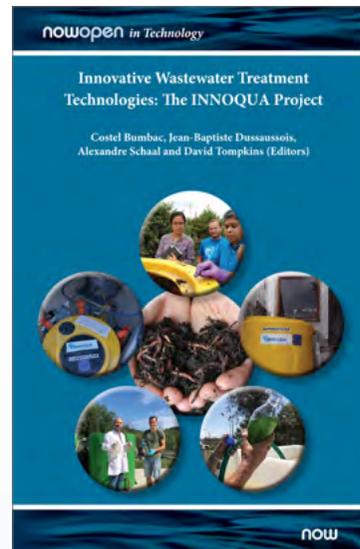
We are all aware that global warming is a major problem that requires our immediate attention. What sets this book apart is that it tackles the problem from an automation and control perspective. Using the model-based control approach, Lipták analyzes the dynamics and characteristics of global warming, identifies the subprocesses that sustain and escalate it, and ultimately determines what can be done.

CLICK HERE FOR MORE INFORMATION



Now Publishers

★ HIGHLIGHT

**INNOVATIVE WASTEWATER TREATMENT TECHNOLOGIES – THE INNOQUA PROJECT***Edited by Costel Bumbac et al*

Aug 2021 400pp

9781680837803 Hardback £98.95 / €112.00

NowOpen

Discusses decentralised wastewater treatment and the role of nature-based solutions within the context of the twenty-partner international INNOQUA project. Design and operation principles are outlined, together with performance data and practical feedback from pilot and demonstration facilities situated in eleven countries.

CLICK HERE FOR MORE INFORMATION



Water Environment Federation

★ HIGHLIGHT

**DESIGN OF URBAN STORMWATER CONTROLS****Second Edition***Water Environment Federation*

Oct 2021 768pp

9781572783904 Paperback £132.00 / €152.00

Manual of Practice, Vol. 23

This manual, a revision of the Water Environment Federation's (WEF's) and the American Society of Civil Engineer's (ASCE's) manual of practice (MOP) titled *Urban Runoff Quality Management* (1998), takes a holistic view and espouses the concept that systems of stormwater controls can be designed to meet the various objectives of stormwater management. Developed by WEF and ASCE.

CLICK HERE FOR MORE INFORMATION



Alpha Science International

ENVIRONMENTAL SCIENCE

Arti Malviya & Dipika Jaspal

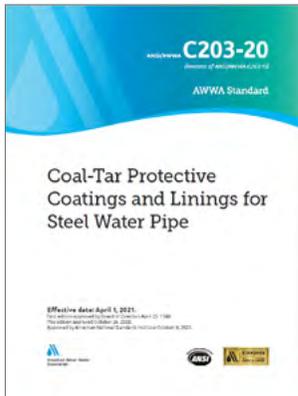
Mar 2021 300pp

9781783325405 Hardback £44.95 / €55.00

Presents a comprehensive introduction to environmental science. Topics discussed range from the understanding of ecology, environment, and different types of pollution to environmental ethics and laws. A detailed description of waste management, types of wastes, the impact of waste on society, and treatment methods is also provided.

Only for sale in Albania, Armenia, Belarus, Bosnia & Herzegovina, Bulgaria, Croatia, Czech Republic, Estonia, Georgia, Hungary, Kosovo, Latvia, Lithuania, Macedonia, Moldova, Poland, Romania, Russia, Serbia, Slovakia, Slovenia, Ukraine

American Water Works Association



AWWA C203-20 COAL-TAR PROTECTIVE COATINGS AND LININGS FOR STEEL WATER PIPE

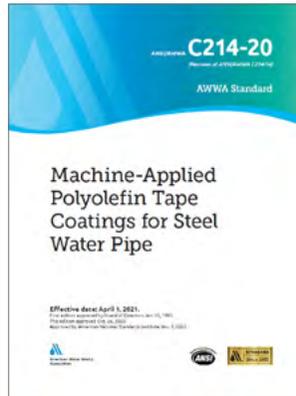
AWWA

Jun 2021 44pp

9781647170387 Paperback £83.50 / €96.00

Provides the requirements for coal-tar protective coatings and linings for steel water pipelines, enamel and tape hot applied, including materials application verification and delivery. This

standard can be referenced in purchase documents for hot-applied coaltar protective coatings and linings of steel water pipelines.



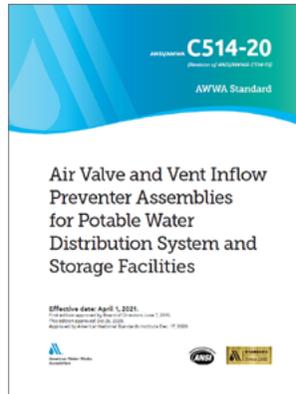
AWWA C214-20 MACHINE-APPLIED POLYOLEFIN TAPE COATINGS FOR STEEL WATER PIPE

AWWA

Jun 2021 18pp

9781647170417 Paperback £83.50 / €96.00

Provides the minimum performance requirements for tape coating systems for the exterior of steel water pipelines, including system components application inspection testing and marking and packaging requirements.



AWWA C514-20 AIR VALVE AND VENT INFLOW PREVENTER ASSEMBLIES FOR POTABLE WATER DISTRIBUTION SYSTEM AND STORAGE FACILITIES

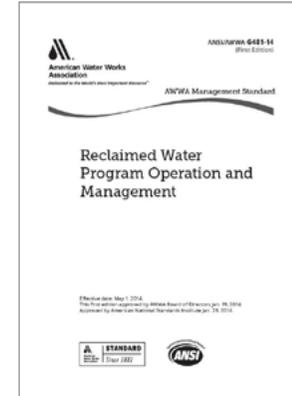
AWWA

Jun 2021 18pp

9781647170424 Paperback £83.50 / €96.00

Provides the minimum requirements for inflow preventer assemblies, including material design, inspection testing, marking, handling, and

packaging for shipment. This standard can be referenced in documents for inflow preventer assemblies.



AWWA G481-14(R20) RECLAIMED WATER PROGRAM OPERATION AND MANAGEMENT

AWWA

Jun 2021 18pp

9781647170431 Paperback £77.50 / €89.00

Defines the critical requirements for the effective operation and management of a reclaimed water program. The stipulations of this standard apply when this document has been referenced and only to the operation and management of reclaimed water programs.

AWWA G485-20 POTABLE REUSE PROGRAM OPERATION AND MANAGEMENT

AWWA

Jun 2021 16pp

9781647170394 Paperback £96.95 / €112.00

Defines the critical requirements for the effective operation and management of a potable reuse water program. The stipulations of this standard apply when this document has been referenced and only to the operation and management of a potable reuse program.

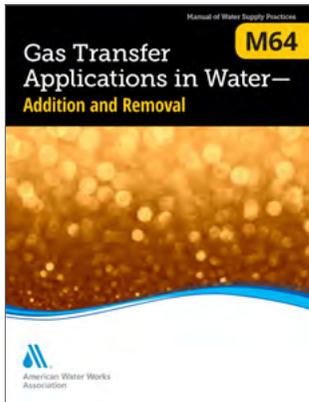
M55 PE PIPE - DESIGN AND INSTALLATION Second Edition

AWWA

Jan 2021 191pp

9781647170202 Paperback £135.00 / €156.00

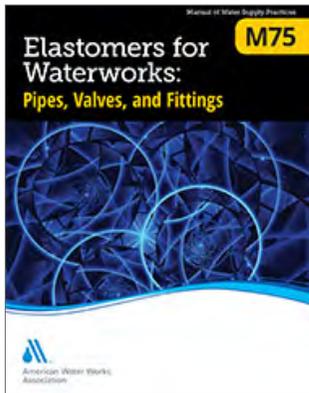
Provides users of PE pipe and fittings in potable water systems with technical and general information on design, specification, procurement, and installation. Coverage includes engineering properties of polyethylene, manufacturing, hydraulics, external loads, joining, fittings, transportation, handling, and storage, installation, and maintenance.



M64 GAS TRANSFER APPLICATIONS IN WATER Addition and Removal
 AWWA
 May 2021 157pp
 9781647170264 Paperback
 £126.00 / €146.00

Contents include the importance of gas transfer operations in water treatment including a definition of aeration; the physical mechanism of gas transfer, including Henry's Law Constants and information regarding blower selection; the

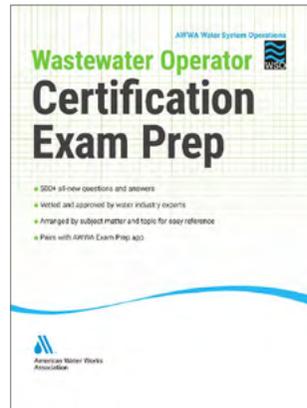
principles and applications for gas addition; and the principles and applications for gas removal.



M75 ELASTOMERS FOR WATERWORKS Pipes, Valves, and Fittings
 AWWA
 Jan 2021 93pp
 9781647170042 Paperback
 £135.00 / €156.00

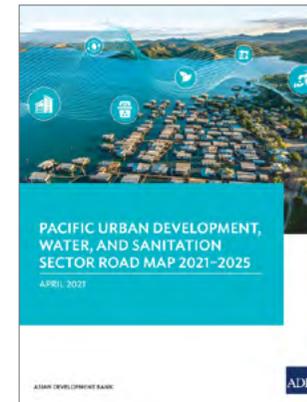
Presents the history and general application of elastomers in waterworks pipes, valves, and fittings. The manual provides guidance on available elastomers and products and their application. The information presented is

useful for operators, technicians, and engineers for gaining a basic understanding of the use and selection of elastomers.



WASTEWATER OPERATOR CERTIFICATION EXAM PREP
 AWWA
 Apr 2021 236pp
 9781647170097 Paperback
 £89.95 / €103.00

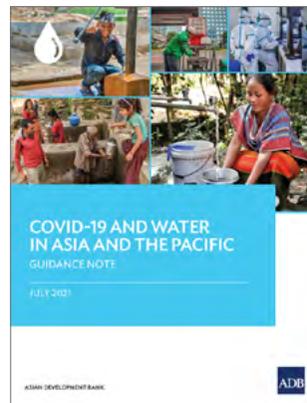
Pass your wastewater certification exam the first time! This study guide is specially developed to give wastewater operators practice answering questions that are similar in format and content to the questions that appear on certification exams.



PACIFIC URBAN DEVELOPMENT, WATER, AND SANITATION SECTOR ROAD MAP 2021-2025
 Asian Development Bank
 May 2021 32pp
 9789292628109 Paperback
 £16.95 / €19.00

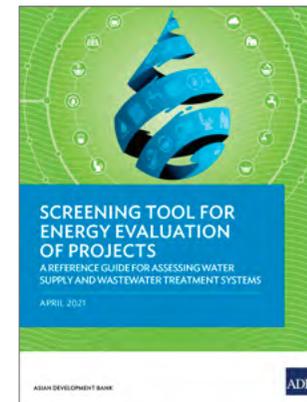
Lays out the vision and strategy of ADB for sustainable urban development programs, projects, and technical assistance in its Pacific developing member countries from 2021 to 2025.

Asian Development Bank



COVID-19 AND WATER IN ASIA AND THE PACIFIC Guidance Note
 Asian Development Bank
 Sep 2021 96pp
 9789292629489 Paperback
 £22.50 / €25.00

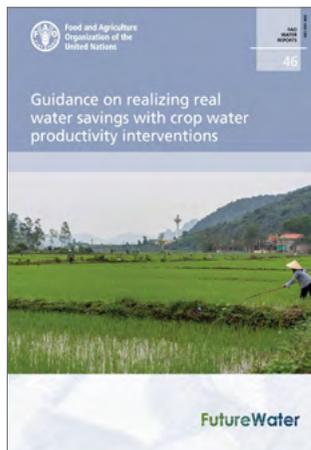
Assesses how the coronavirus disease (COVID-19) pandemic has impacted the water sector in Asia and the Pacific and what can be done to drive its recovery and rejuvenation.



SCREENING TOOL FOR ENERGY EVALUATION OF PROJECTS
 A Reference Guide for Assessing Water Supply and Wastewater Treatment Systems
 Asian Development Bank
 Apr 2021 46pp
 9789292627348 Paperback
 £19.95 / €23.00

Guides users on applying the Screening Tool for Energy Evaluation of Projects (STEEP), which is designed to support efforts to improve energy use efficiency in water and wastewater treatment systems.

Food and Agriculture Organization of the United Nations - FAO



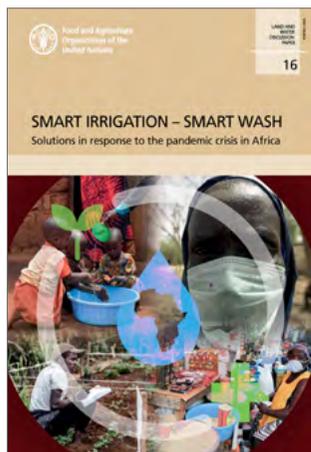
GUIDANCE ON REALIZING REAL WATER SAVINGS WITH CROP WATER PRODUCTIVITY INTERVENTIONS

J. Van Opstal et al
 Jun 2021 60pp
 9789251341360 Paperback
 £31.50 / €36.00

FAO Water Reports, Vol. 46

This technical document emphasizes that water savings can help agriculture become more productive. It lists interventions that can increase water productivity and reduce water

consumption, such as drip irrigation, regulated deficit irrigation, and sprinkler irrigation.



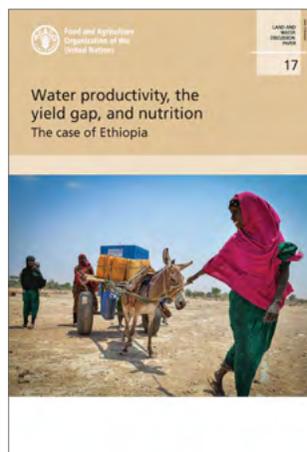
SMART IRRIGATION – SMART WASH Solutions in Response to the Pandemic Crisis in Africa

M. Salman, E. Pek & W. Ahmad
 Mar 2021 109pp
 9789251333907 Paperback
 £52.95 / €61.00

FAO Land and Water Discussion Papers, Vol. 16

Discusses possible relief measures to slow the spread of COVID-19 in the African continent. The paper argues that applying a "multiple water use" approach, where water from the

same source or infrastructure has multiple uses and functions, would contribute to fighting the pandemic while ensuring basic needs relating to food security.



WATER PRODUCTIVITY, THE YIELD GAP, AND NUTRITION The Case of Ethiopia

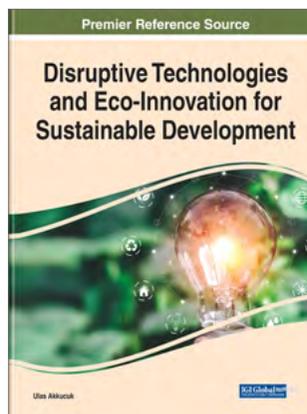
Jan Lundqvist et al
 Jun 2021 82pp
 9789251341452 Paperback
 £43.50 / €50.00

FAO Land and Water Discussion Papers, Vol. 17

Uses a nutritional water productivity (NWP) framework to interpret the relationship between nutrition and water in the context of water challenges. The report

argues that increasing crop yields in water-stressed areas requires agricultural transformation.

IGI Global



DISRUPTIVE TECHNOLOGIES AND ECO-INNOVATION FOR SUSTAINABLE DEVELOPMENT

Edited by Ulas Akkucuk
 Oct 2021 335pp
 9781799889014 Paperback
 £135.00 / €156.00
 9781799889007 Hardback
 £176.00 / €203.00

Provides an in-depth look into the new techniques, strategies, and technologies for achieving environmental sustainability through best business and technology practices. This book covers topics such as eco-innovation, green criteria, Agriculture 4.0, and topics related to logic, philosophy, and history of science and technology.

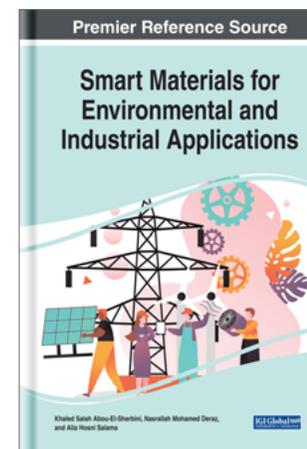


HANDBOOK OF RESEARCH ON WASTE DIVERSION AND MINIMIZATION TECHNOLOGIES FOR THE INDUSTRIAL SECTOR

Edited by Ashok K. Rathoure
 Jan 2021 455pp
 9781799849216 Hardback
 £267.00 / €307.00

Presents research on the application of modern pollution-control methodologies in industrialized environments. Highlighting topics such as life cycle assessment,

bioremediation, and thermal waste treatment, this book explores environmental risk reduction scenarios as well as sustainable waste-collecting solutions.



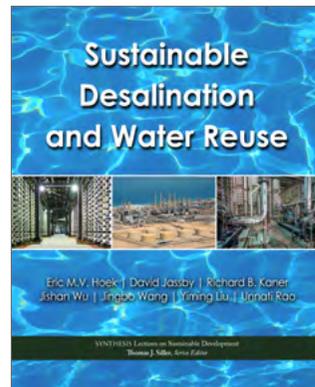
SMART MATERIALS FOR ENVIRONMENTAL AND INDUSTRIAL APPLICATIONS

Edited by Khaled Salah Abou-El-Sherbini, Nasrallah Mohamed Deraz & Alia Hosni Salama
 Aug 2021 300pp
 9781799829324 Paperback
 £149.00 / €172.00
 9781799829317 Hardback
 £194.00 / €224.00

Describes recently introduced advanced construction materials that are considered in terms of four

broad industrial and environmental categories: catalysis, new and regenerating energy, water treatment, and green chemistry and sustainability. This book covers a wide range of topics, including nanotechnology, water treatment, and green chemistry.

Morgan & Claypool Publishers



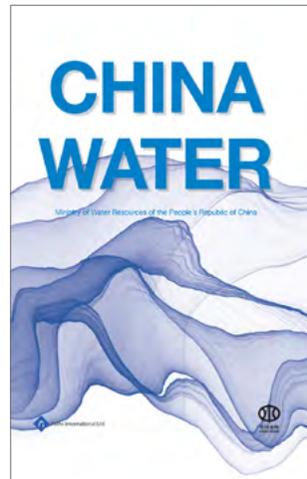
SUSTAINABLE DESALINATION AND WATER REUSE

David Jassby et al
Jul 2021 204pp
9781636391892 Paperback
£72.50 / €83.00
9781636391915 Hardback
£91.50 / €104.00

Synthesis Lectures on Sustainable Development

Reviews the basic principles of reverse osmosis (RO) processes, the state-of-the-art for RO membranes, modules and system designs as well as methods for concentrating and treating brines to achieve minimal and zero liquid discharge, resource recovery and renewable energy powered desalination systems.

Paths International Ltd

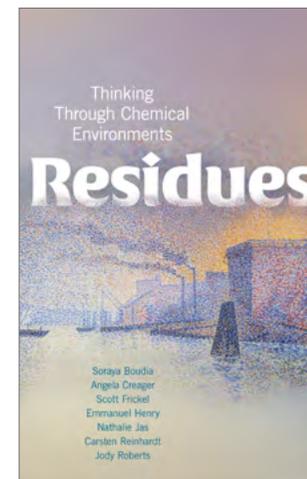


CHINA WATER

Ministry of Water Resources of the People's Republic of China
Oct 2021 194pp
9781844646746 Hardback
£80.00 / €98.00

At a time when global water resources are under increasing pressure, every country is doing their best to find solutions to achieve Goal 6 of 2030 Agenda for Sustainable Development. This book introduces China's development of water science and technology, reflecting China's water control ideas and conservancy construction achievements.

Rutgers University Press



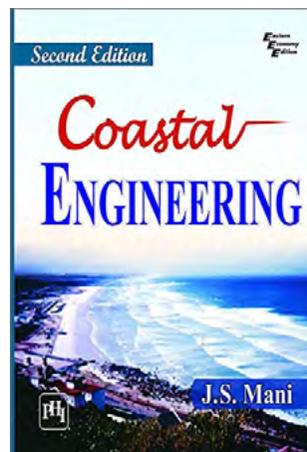
RESIDUES Thinking Through Chemical Environments

Soraya Boudia et al
Dec 2021 146pp
9781978818019 Paperback
£19.95 / €23.00
9781978818026 Hardback
£94.95 / €108.00

Nature, Society, and Culture

Offers readers a new approach for conceptualising the environmental impacts of chemicals production, consumption, disposal, and regulation. Tracking residues through time, space, and understanding helps us see how the past has been built into our present chemical environments and future-oriented regulatory systems.

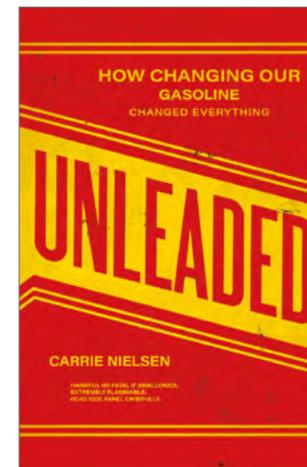
PHI Learning



COASTAL ENGINEERING Second Edition

J.S. Mani
Feb 2021 597pp
9789387472358 Paperback
£39.50 / €46.00

Provides an overview of world population and ocean resources, natural threats and man-made hazards, and their impact on coastal environments. This book discusses the fundamentals of wind, waves, tides and fluid flow and describes commonly adopted wave theories in coastal engineering.



UNLEADED How Changing Our Gasoline Changed Everything

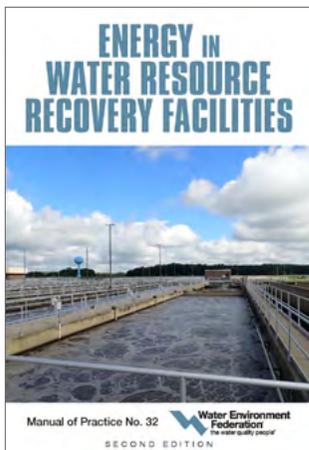
Carrie Nielsen
Aug 2021 188pp
9781978821002 Paperback
£21.50 / €25.00
9781978821019 Hardback
£54.95 / €63.00

Tells the story of how crusading scientists and activists convinced the US government to ban lead additives in gasoline. The book also reveals how, for nearly 50 years, scientific experts paid by the oil and mining industries abused their authority to convince the public that leaded gasoline was perfectly harmless.



If you are a teaching academic or course leader you may request up to three titles as FREE inspection copies to consider as textbooks for students on your course. For further details please visit: eurospan.co.uk/inspection

Water Environment Federation



ENERGY IN WATER RESOURCE RECOVERY FACILITIES

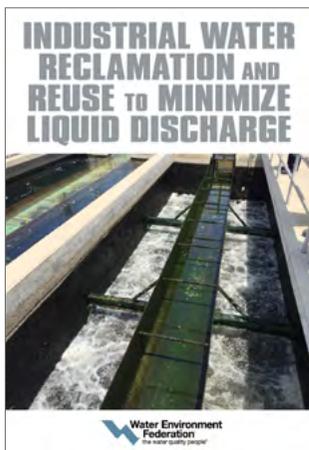
Second Edition

Water Environment Federation

Sep 2021 376pp
9781572784024 Paperback
£149.00 / €172.00

Manual of Practice, Vol. 32

Discusses principles and concepts of energy sources and their uses in the transport, treatment, and recovery of water and water resources.

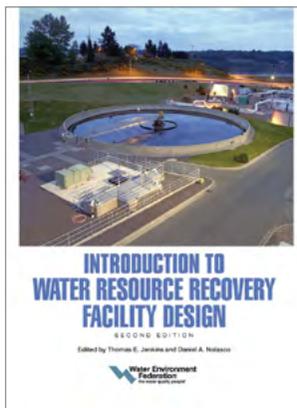


INDUSTRIAL WATER RECLAMATION AND REUSE TO MINIMIZE LIQUID DISCHARGE

Water Environment Federation

Sep 2021 560pp
9781572783607 Paperback
£158.00 / €182.00

A comprehensive summary of water reclamation technologies and practices for minimizing liquid discharge for a broad range of industries.



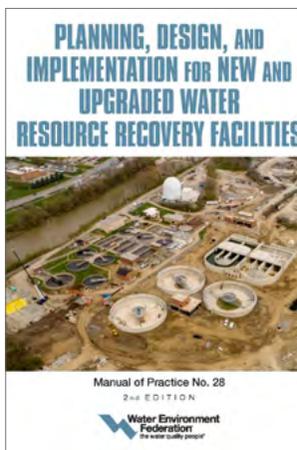
INTRODUCTION TO WATER RESOURCE RECOVERY FACILITY DESIGN

Second Edition

Water Environment Federation

Jan 2021 604pp
9781572783881 Paperback
£155.00 / €179.00

Fully updated for the latest regulations and standards, the second edition of this renowned Water Environment Federation book provides students and practicing engineers with authoritative information on state-of-the-art facility design and treatment processes.



PLANNING, DESIGN, AND IMPLEMENTATION FOR NEW AND UPGRADED WATER RESOURCE RECOVERY FACILITIES

Second Edition

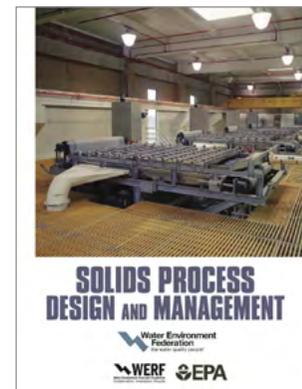
Water Environment Federation

Sep 2021 270pp
9781572784055 Paperback
£185.00 / €213.00

Manual of Practice, Vol. 28

Utilities are faced with many challenges in their mission to manage wastewater, protect the water environment, and use

resources wisely. Meeting these challenges can require significant upgrades to the nature or size of their facilities. This manual serves as a guidance document to help utility managers and others navigate this complex process.



SOLIDS PROCESS DESIGN AND MANAGEMENT

Water Environment Federation

Jan 2021 1152pp
9781572783867 Paperback
£162.00 / €186.00

Presents contemporary new material on planning, public outreach and involvement, solids production and characterization, design approach, conveyance, conditioning, thickening, waste minimization, anaerobic and aerobic digestion, dewatering, composting, alkaline treatment, disinfection and stabilization, thermal drying, and more.



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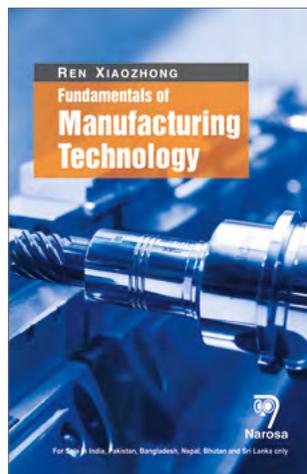
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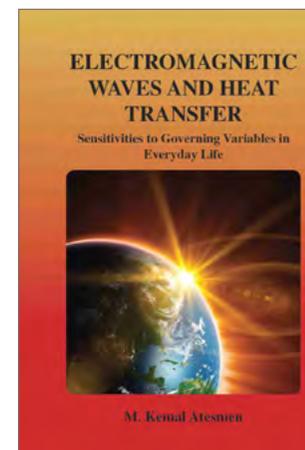
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Contains latest developments in this important area. Articles on fundamentals, newer processes, novel ways of analyzing and interpreting the results, peripheral areas, quality management, environmental aspects and advanced technologies on metal forming are all described in this book.

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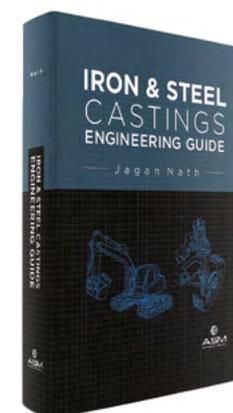
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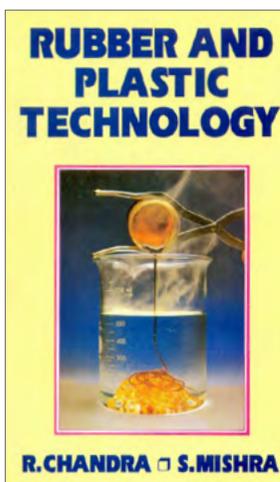
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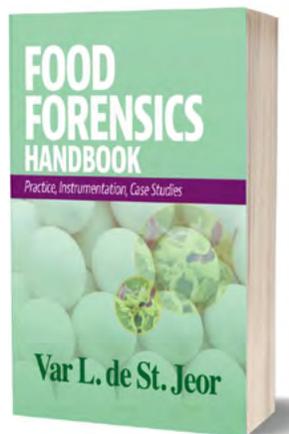
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R. Chandra & S. Mishra

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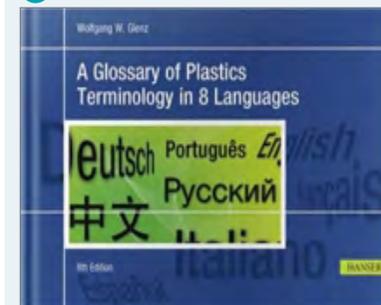
Var L. de St. Jeor

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Based on the analysis of actual problematic samples sent by agricultural and food producers, this handbook is a technical introduction to the investigative methods and technical apparatus for analyzing foods and related

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A GLOSSARY OF PLASTICS TERMINOLOGY IN 8 LANGUAGES

Eighth Edition

Wolfgang Glenz
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£84.95 / €99.99

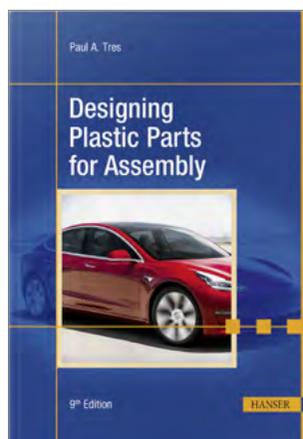
This compact glossary in eight languages (English, German, Spanish, Italian, French, Portuguese, Russian, and Chinese) contains more than 2300 terms related to the chemistry, properties, testing, and processing of plastic materials. It was created to help bridge the language barriers within the international plastics manufacturing community.

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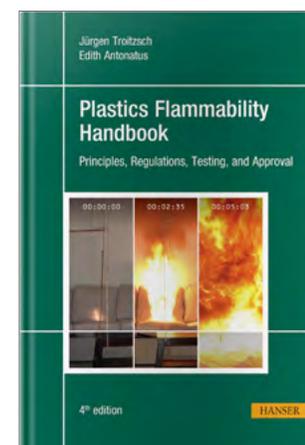
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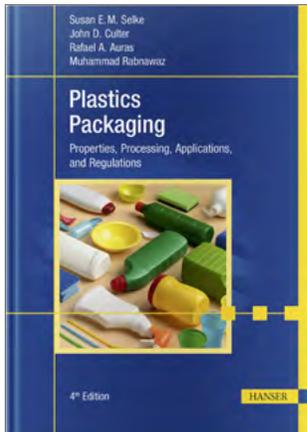
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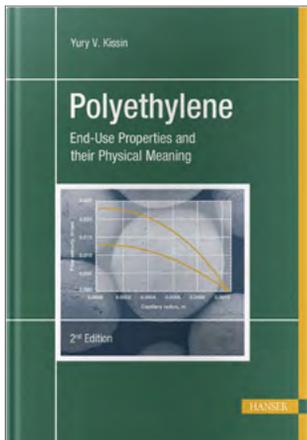
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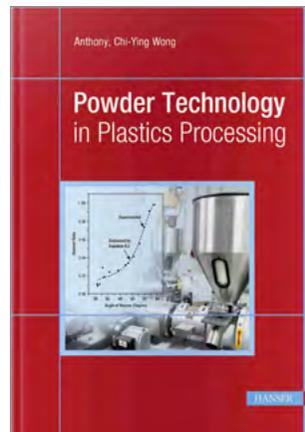
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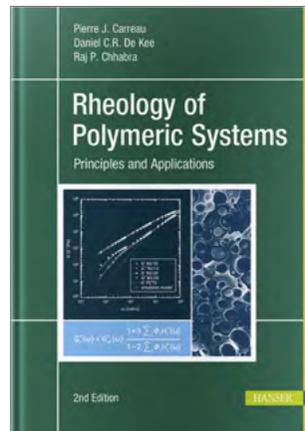
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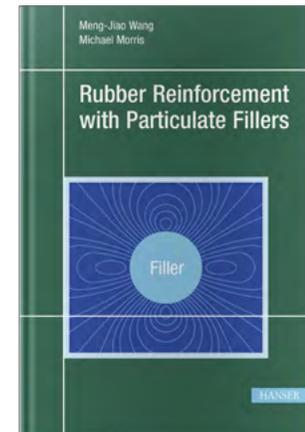
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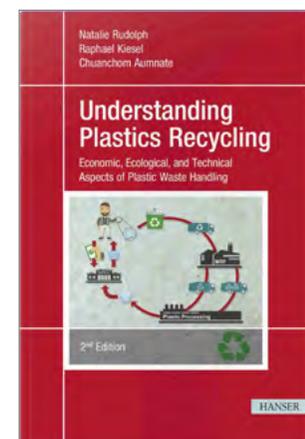
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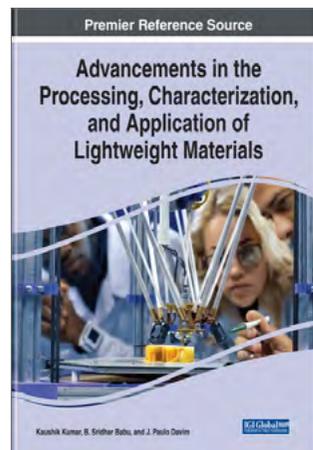
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Explores the true and often-underestimated market potential of plastics recycling, with analysis from economic, ecological, and technical perspectives. The book is aimed at decision makers in material suppliers, plastic product manufacturers, governmental agencies, educators, and anyone with a general interest in plastics recycling.

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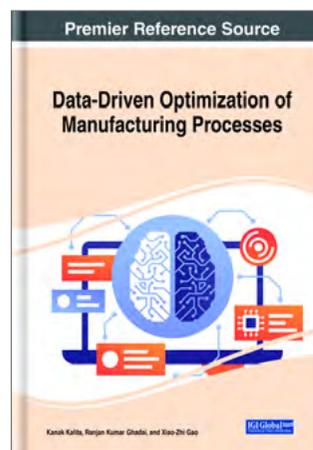
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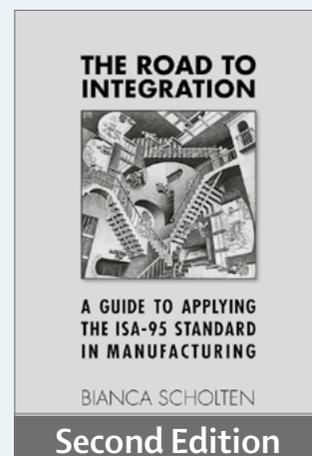
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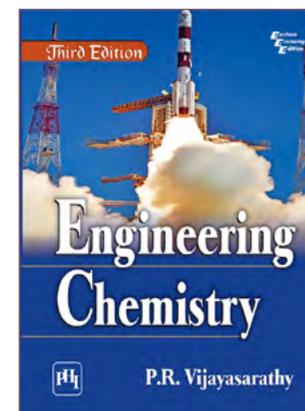
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Bianca Scholten
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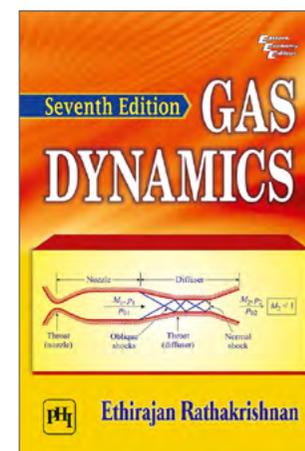
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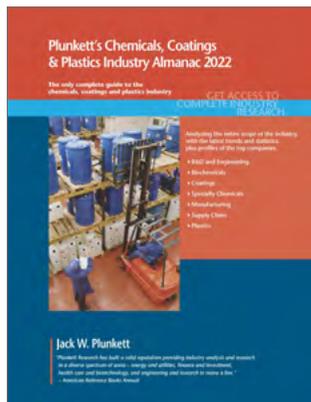
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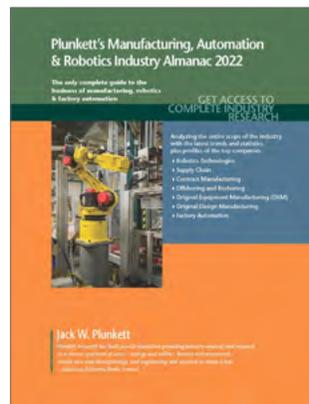


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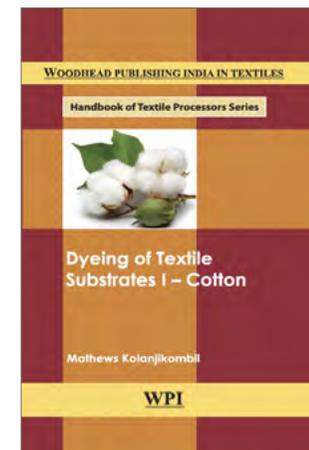
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M. Sumithra
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EBOOK AVAILABLE
DYEING OF TEXTILE SUBSTRATES I

Cotton
 Mathews Kolanjikombil
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 9789385059469 Hardback
 €185.00 / €210.00

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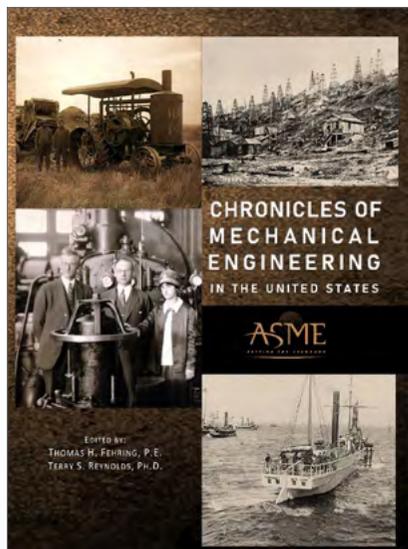
Cotton dyeing is the most common substrate in textile industry and this book gives a short treatise on all of the dyes used in the textile industry. It includes detailed

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MECHANICAL ENGINEERING & MATERIALS SCIENCE

American Society of Mechanical Engineers

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Edited by Thomas H. Fehring & Terry S. Reynolds

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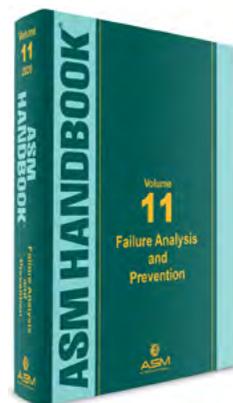
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Edited by Brett A. Miller et al

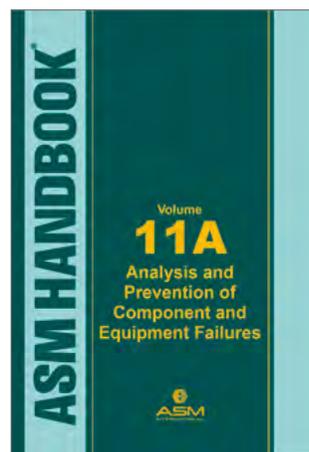
Apr 2021 800pp

9781627082938 Hardback

£272.00 / €308.00

A resource for failure analysts, engineers, and technical personnel who are looking to identify the root cause(s) of failures and to prevent future failures. It contains divisions devoted to the practice of failure analysis, tools and techniques, fatigue and fracture, environmental and corrosion-related failures, wear failures, and distortion.

PRE-PUBLICATION PRICE

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VOLUME 11A
Analysis and Prevention
of Component and
Equipment Failures**

Edited by Brett A. Miller et al

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9781627083270 Hardback

£245.00 / €276.00

(Price after publication

£272.00 / €308.00)

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DEStech Publications, Inc.

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**STRUCTURAL TEXTILE COMPOSITE MATERIALS**

Chris Pastore, Cagri Aryanci & Frank Ko

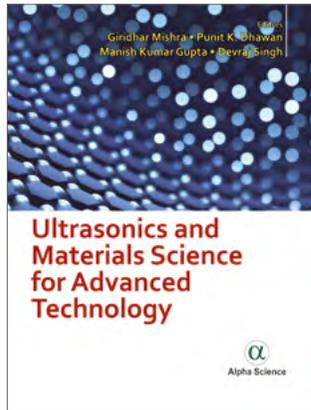
Dec 2021 200pp

9781605952246 Hardback £107.00 / €122.00

Written by experts in both textiles and materials science, this book covers the formation of near net-shape composites from 2-D and 3-D textiles made from natural yarns and fabrics as well as synthetic fibres such as carbon, with a special stress on preforms. This is followed by a description of how textile composites are made with polymer, metal, and ceramic matrices. Design calculations are provided, starting with micromechanical features and moving toward finished component.

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Giridhar Mishra *et al*

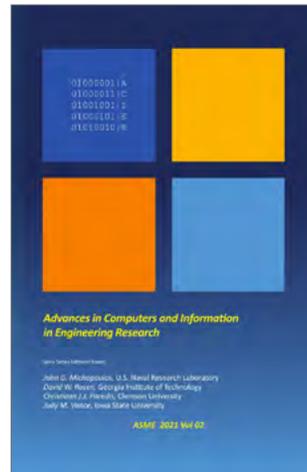
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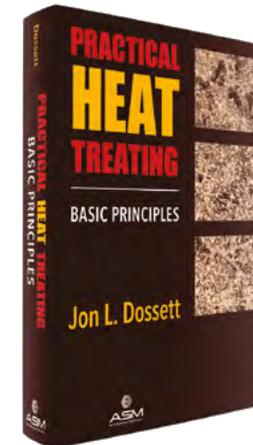
ADVANCES IN COMPUTERS AND INFORMATION IN ENGINEERING RESEARCH, VOLUME 2

John G. Michopoulos *et al*

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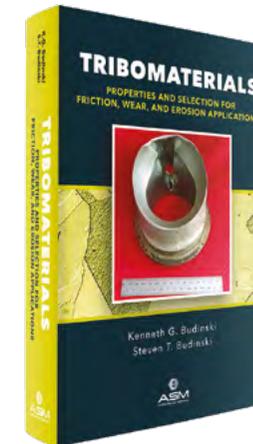


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Jon L. Dossett

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TRIBOMATERIALS Properties and Selection of Materials for Friction, Wear, and Erosion Applications

Kenneth G. Budinski & Steven T. Budinski

May 2021 477pp
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ANNUAL REVIEW OF HEAT TRANSFER**Critical Heat Flux***Edited by Vishwanath Prasad, Yogesh Jaluria & Zhuomin Zhang*

Jul 2021 130pp

9781567004984 Hardback £212.00 / €244.00

Annual Review of Heat Transfer, Vol. 22, 2019

Organized into separate chapters, each dealing with many different aspects of a separate issue. Chapter 1 provides an overview of the flow boiling phenomena in totality. Chapter 2 deals with the experimental methods and results on the determination of CHF.

ANNUAL REVIEW OF HEAT TRANSFER**Micro/Nanoscale Thermal Radiation***Edited by Vishwanath Prasad, Yogesh Jaluria & Zhuomin Zhang*

Aug 2021 432pp

9781567005004 Hardback £212.00 / €244.00

Annual Review of Heat Transfer, Vol. 23, 2020

Covers micro/nanoscale thermal radiation, which concerns both near-field radiative heat transfer between closely spaced objects and the interaction of electromagnetic waves with micro/nanostructured materials that modifies the far-field radiative properties.

**COMPOSITE MATERIALS QUALIFICATION***Frank Abdi et al*

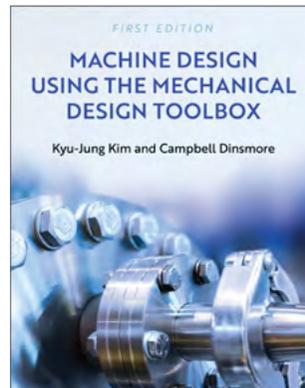
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Provides an introduction to composite materials technology focusing on, but not limited to, aerospace and automotive industries. The test standards, allowable generation and certification requirements for various composite material systems are described. Sources of information about the state-of-the-art composite materials are outlined.

Cognella Academic Publishing

**MACHINE DESIGN USING THE MECHANICAL DESIGN TOOLBOX***Kyu-Jung Kim & Campbell Dinsmore*

Mar 2021 252pp

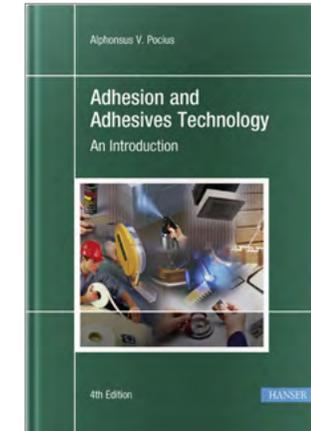
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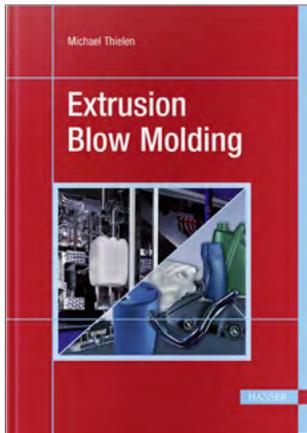
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Second Edition***Hauke Lengsfeld et al*

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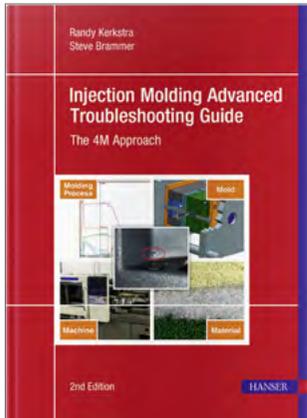


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Michael Thielen
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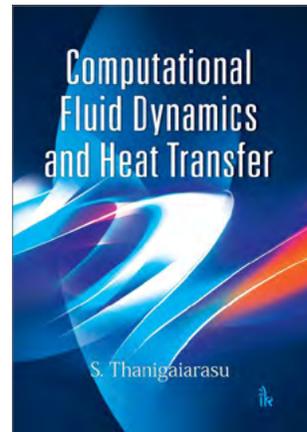
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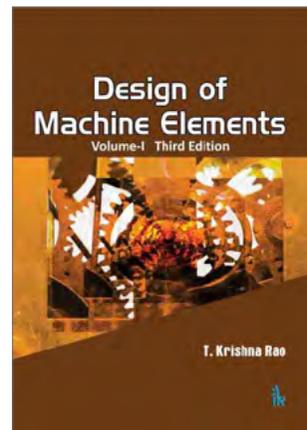
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COMPUTATIONAL FLUID DYNAMICS AND HEAT TRANSFER

S. Thanigaiarasu
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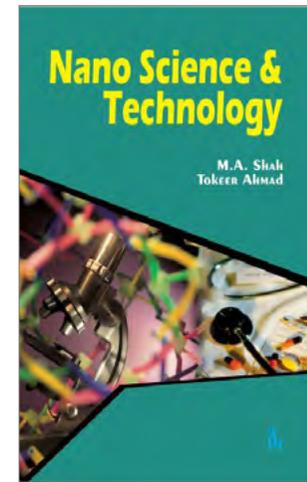
Explains the fundamentals of heat transfer and focuses on the finite difference method, which is one of the computational methods used to solve engineering problems. The major strength of the book is that it covers one-dimensional, two-dimensional steady and transient conduction and convection problems in detail.



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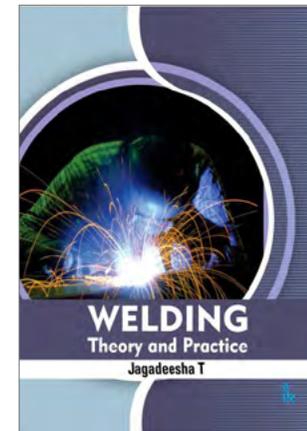
Covers the types of loads, material properties, safety requirements and failure modes for particular situations. This book thoroughly illustrates the cases of various problems of design of machine elements. A variety of problems both with practical relevance and various examinations are solved and presented.



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Morgan & Claypool Publishers

**NANOMATERIALS****The Original Product of Nanotechnology**

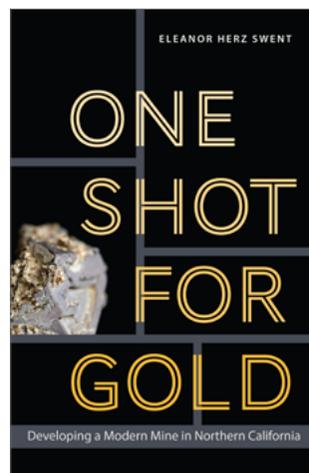
Maria Benelmekki

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**ONE SHOT FOR GOLD****Developing a Modern Mine in Northern California**

Eleanor Herz Swent

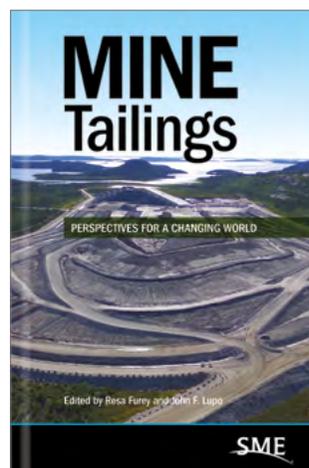
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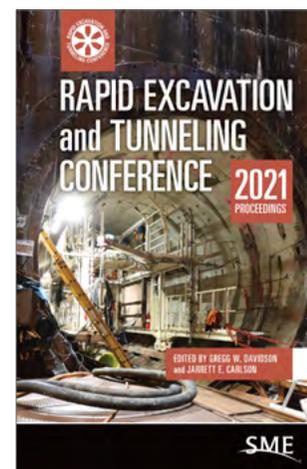
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OPTICAL ENGINEERING & PHOTONICS

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NANOPHOTONICS AND NANOSTRUCTURED FIBER SENSORS

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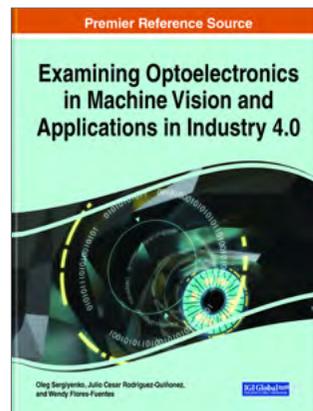
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IGI Global

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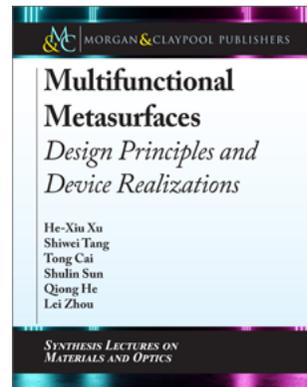
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Design Principles and Device Realizations

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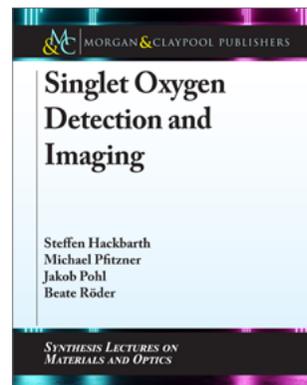
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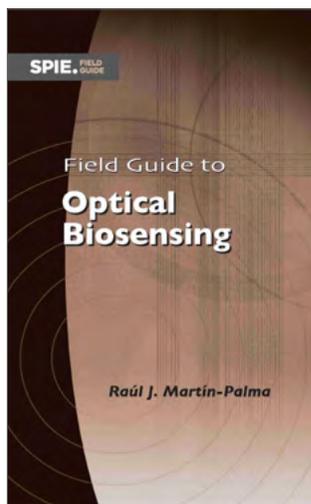
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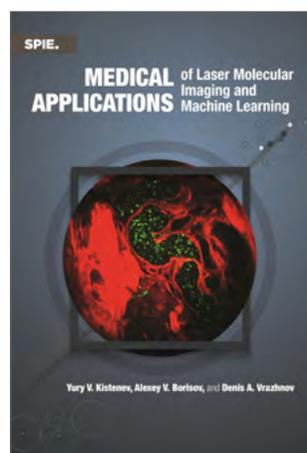
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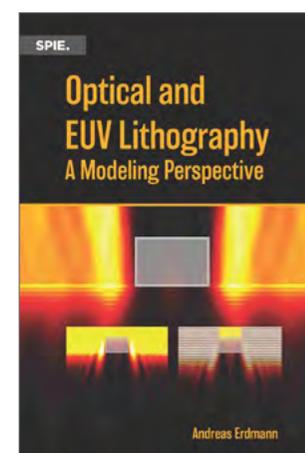
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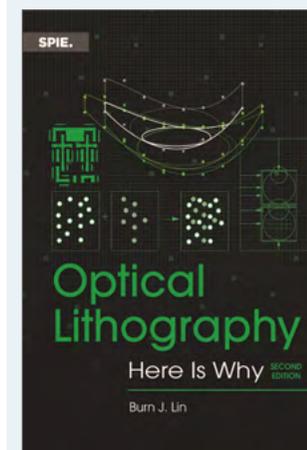
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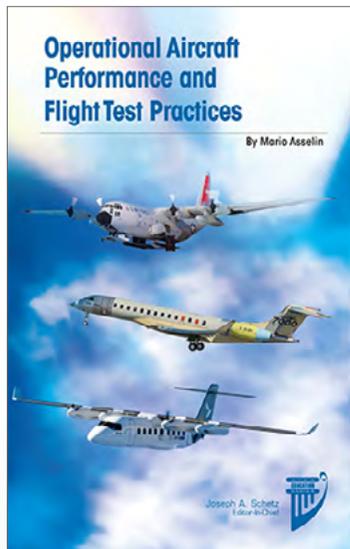
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Written for new and experienced engineers, technology managers, and senior technicians who want to enrich their understanding of the image formation physics of a lithographic system. Readers will gain knowledge of the basic equations and constants that drive optical lithography, learn the basics of exposure systems and image formation, and come away with a full understanding of system components, processing, and optimization.

TRANSPORT TECHNOLOGY

American Institute of Aeronautics and Astronautics

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**MARITIME UNMANNED***From Global Hawk to Triton**Ernest Snowden & Robert F. Wood*

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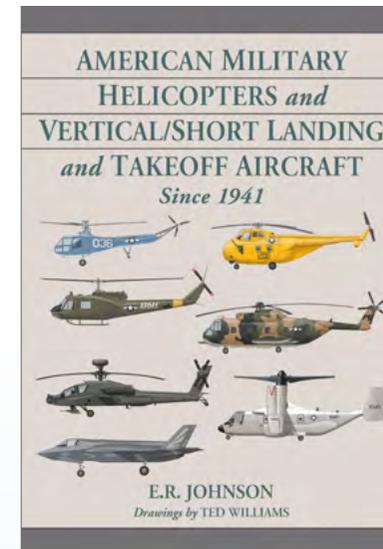
Recounts the promising beginning, demoralizing setbacks, and ultimate success of the visionaries who championed unmanned aircraft systems technology for the US Navy. Ernest Snowden and Robert Wood dive deep inside the machinations of aerospace and defense industry leadership, strategy development, and execution. They describe the process industry representatives and Navy counterparts took to develop and socialize an unfamiliar and unconventional concept of operations in their effort to cultivate adoption of the technology by the US Navy; and they reveal the motivations of senior government acquisition officials, who either advocated for the concept or purposely road-blocked its advancement.

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Over the past eight decades, developments in vertical lift aircraft - both helicopters and vertical/short takeoff and landing (V/STOL) planes - have given the American military unparalleled capabilities on the modern battlefield.

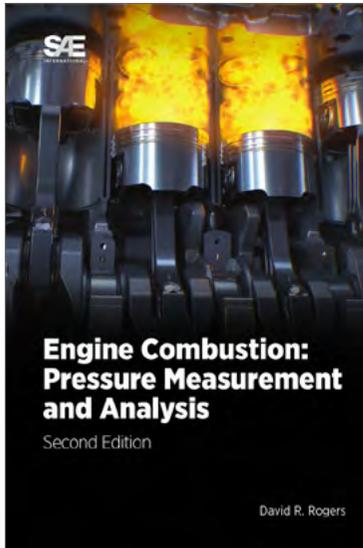
This book gives a concise historical survey, including technical specifications, drawings, and photographs of every type of helicopter and V/STOL aircraft developed for the U.S. military, from the earliest examples tested in 1941 and 1942, up to the newest prototypes.

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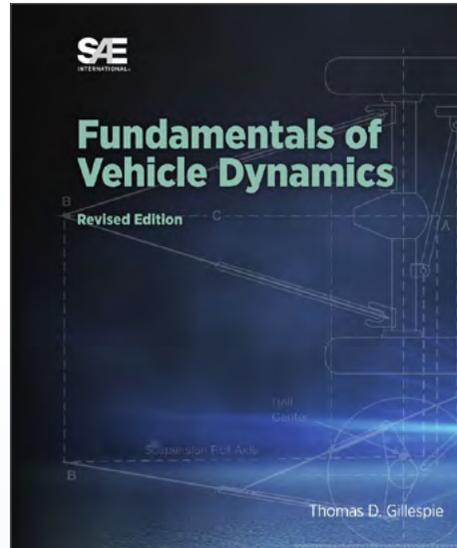
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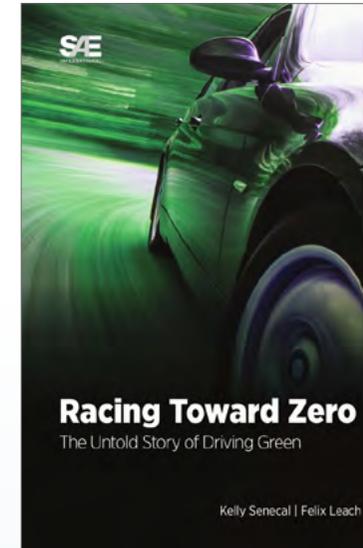
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A world-recognized expert in the science of vehicle dynamics, Dr. Thomas Gillespie has created an ideal reference book that has been used by engineers for 30 years.

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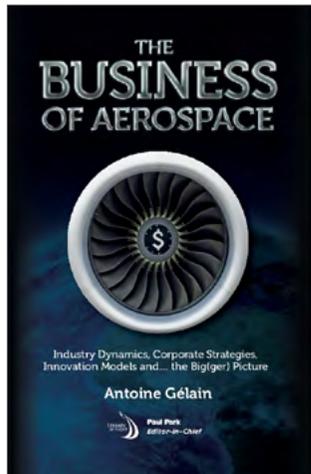
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Explores the issues inherent in developing sustainable transportation and reviews the types of propulsion systems and vehicle options, discusses low-carbon fuels and alternative energy sources, and examine the role of regulation in curbing emissions. How do we go green? The future requires a balanced approach to transportation. It's not a matter of choosing between combustion or electrification; it's combustion and electrification. As the authors say, "The future is eclectic". By harnessing the best qualities of both technologies, we will be in the best position to address our transportation future as quickly as possible.

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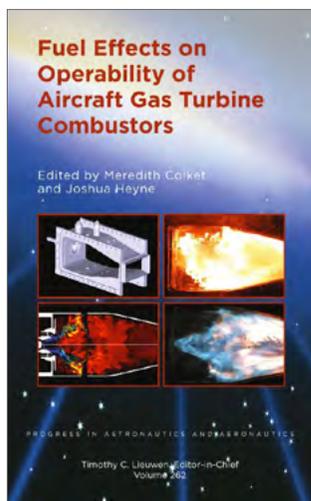
Antoine Gélain

Aug 2021 192pp
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Library of Flight

A compilation of many of Antoine Gélain's writings for *Aviation Week & Space Technology* published throughout the last decade. Organized by themes and

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Fuel Effects on Operability of Aircraft Gas Turbine Combustors

Edited by Meredith Colket & Joshua Heyne

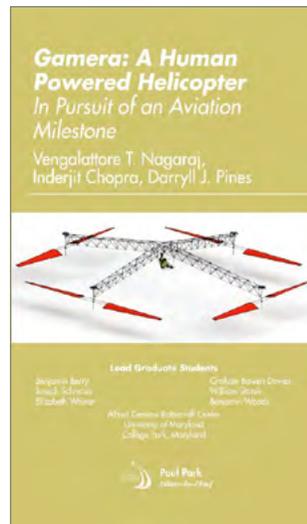
FUEL EFFECTS ON OPERABILITY OF AIRCRAFT GAS TURBINE COMBUSTORS

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9781624106033 Hardback
£106.00 / €121.00

Progress in Astronautics and Aeronautics, Vol. 262

Demonstrates that there is still much to be learned about the combustion of alternative jet fuels. This book summarizes the results obtained in the first five years of the National Jet Fuel Combustion Program (NJFCP).



GAMERA: A Human Powered Helicopter

In Pursuit of an Aviation Milestone

Vengalattore T. Nagaraj, Inderjit Chopra, Darryll J. Pines

GAMERA: A HUMAN POWERED HELICOPTER

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Vengalattore T. Nagaraj, Inderjit Chopra & Darryll J. Pines

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Lessons Learned from 60 Years in Space

HUMAN SPACEFLIGHT OPERATIONS

Lessons Learned from 60 Years in Space

Edited by Gregory E. Chamitoff & Srinivas Rao Vadali

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The purpose of this book is to share collective experience on human spaceflight operations. For the many authors, this is nothing less than a work of passion. They are sharing their life's work with the goal of passing on their experience to the next generation of space engineers, designers, operators, and crew.

University Press of Florida



PICTURING THE SPACE SHUTTLE

The Early Years

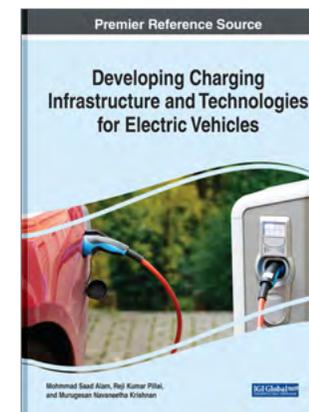
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After the excitement of the first Moon landing, the US space program took an ambitious new direction closer to home: NASA's Space Shuttle program. *Picturing the Space Shuttle* is the first photographic history of the

program's early years as the world's first space plane debuted.

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Premier Reference Source

Developing Charging Infrastructure and Technologies for Electric Vehicles

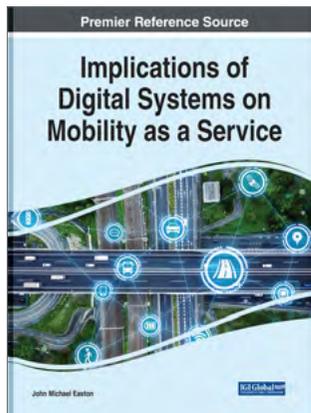
DEVELOPING CHARGING INFRASTRUCTURE AND TECHNOLOGIES FOR ELECTRIC VEHICLES

Edited by Mohammad Saad Alam, Reji Kumar Pillai & Murugesan Navaneetha Krishnan

Aug 2021 330pp
9781799868590 Paperback
£149.00 / €172.00
9781799868583 Hardback
£194.00 / €224.00

Reviews and discusses the state of the art in electric vehicle charging technologies, their applications,

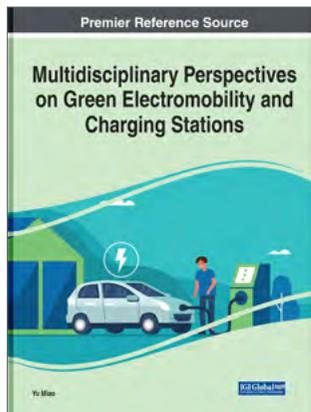
economic, environmental and social impact, and integration with renewable energy. In addition, this book identifies potential research directions and technologies.



IMPLICATIONS OF DIGITAL SYSTEMS ON MOBILITY AS A SERVICE

Edited by John Michael Easton
Oct 2021 335pp
9781799864622 Paperback
£154.00 / €177.00
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Explores the role of data in the future of multimodal transport, showcases the work of leading organisations in the transportation research community, and highlights the roles that promising new technologies will play in readying transport networks for the 21st century.

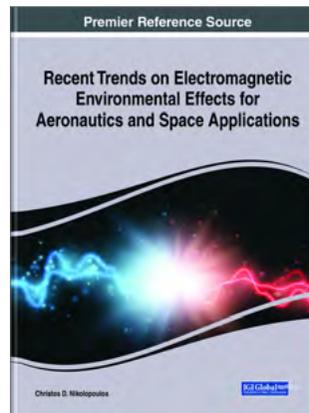


MULTIDISCIPLINARY PERSPECTIVES ON GREEN ELECTROMOBILITY AND CHARGING STATIONS

Edited by Yu Miao
Aug 2021 305pp
9781799873952 Paperback
£154.00 / €177.00
9781799839972 Hardback
£203.00 / €234.00

Presents the latest state-of-the-art research results and methodologies addressing concerns in areas of green electromobility, and seeks to establish worldwide cooperative

research and development. This book focuses on how there is a shift towards electromobility and how renewable energy contributes to a sustainable future.

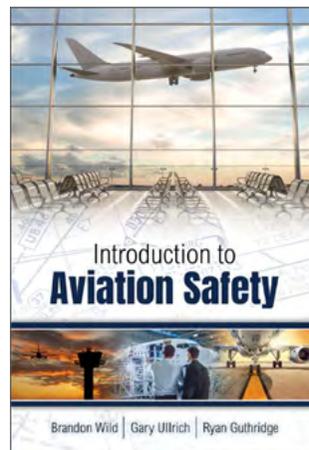


RECENT TRENDS ON ELECTROMAGNETIC ENVIRONMENTAL EFFECTS FOR AERONAUTICS AND SPACE APPLICATIONS

Edited by Christos D. Nikolopoulos
Jan 2021 285pp
9781799874911 Paperback
£181.00 / €208.00
9781799848790 Hardback
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Provides relevant theoretical frameworks and the latest empirical research findings in electromagnetic compatibility and electromagnetic interference for the aerospace industry. This book highlights a range of topics, including artificial intelligence, electromagnetic testing, environmental shielding, and EMC modelling techniques.

Kendall Hunt Publishing Company

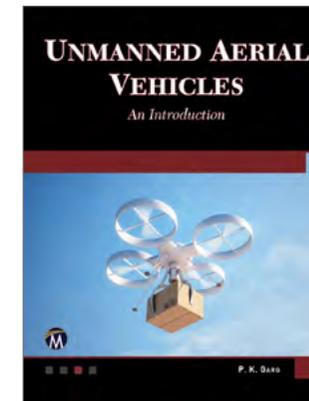


INTRODUCTION TO AVIATION SAFETY

Brandon Wild, Gary Ullrich & Ryan Guthridge
May 2021 210pp
9781792467134 Paperback
£68.50 / €78.00

Provides a detailed introduction into the current important issues affecting aviation safety.

Mercury Learning and Information

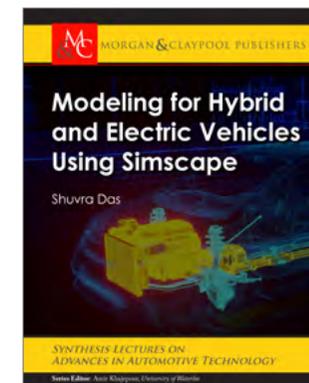


UNMANNED AERIAL VEHICLES An Introduction

P. K. Garg
Aug 2021 432pp
9781683927099 Paperback
£41.50 / €47.00

Provides an overview of the basic concepts and components of UAVs, the various sensors used, architecture of autonomous UAVs, communication tools and devices to acquire real-time data from UAVs, the software needed to analyze the UAV data, required rules and regulations to fly UAVs, various application areas, and future areas of research which is needed to handle relevant challenges.

Morgan & Claypool Publishers



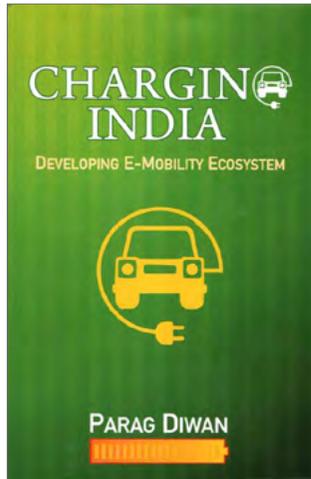
MODELING FOR HYBRID AND ELECTRIC VEHICLES USING SIMSCAPE

Shuvra Das
May 2021 217pp
9781636391250 Paperback
£72.50 / €83.00
9781636391274 Hardback
£89.95 / €104.00

Synthesis Lectures on Advances in Automotive Technology

Simscape, a Matlab/Simulink toolbox for modeling physical systems, is the ideal platform for developing and deploying models for hybrid and electric vehicle systems and sub-systems. This book is step-by-step guide through the process of developing precise and accurate models for all critical areas of hybrid and electric vehicles.

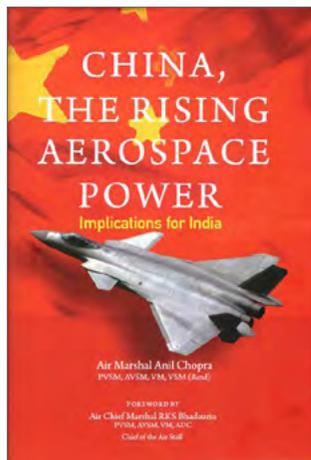
Pentagon Press LLP



CHARGING INDIA
Developing
E-Mobility Ecosystem

Parag Diwan
Aug 2021 208pp
9788194465966 Hardback
£29.50 / €34.00

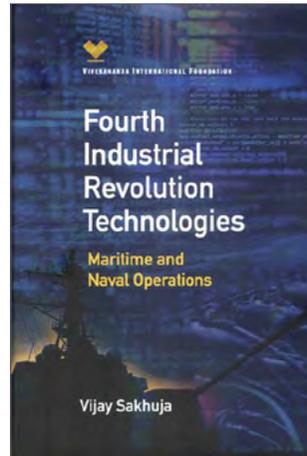
Explores the intricacies of the landscape of electric vehicles and electric vehicle charging infrastructure in India. Due to favourable Government frameworks, the propagation of electric vehicles is happening at a fast pace, and as automotive industry giants embark on a new EV paradigm, shapes, structures, and technologies are being transformed.



CHINA, THE RISING AEROSPACE POWER
Implications for India

Anil Chopra
Feb 2021 316pp
9789390095148 Hardback
£29.50 / €34.00

Provides a comprehensive evaluation of how the Chinese aerospace technologies, industrial capability, the People's Liberation Army Air Force (PLAAF) and various other elements of air and space are getting into place. The book offers an understanding of the current status and unfolding future of Chinese aerospace power.

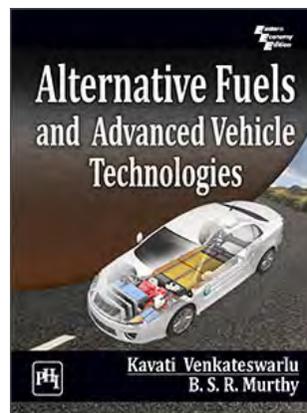


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Maritime and
Naval Operations

Vijay Sakhujia
Aug 2021 188pp
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Commercial and military operations at sea and ashore across the globe are in the throes of technological and organisational transformation led by the Fourth Industrial Revolution (4IR) technologies. Great powers are investing in 4IR technologies and pursuing competitive national strategies with the goal of technological dominance, thus maintaining a favourable balance of power at the regional and global levels - as this book demonstrates.

PHI Learning



ALTERNATIVE FUELS AND ADVANCED VEHICLE TECHNOLOGIES

Kavati Venkateswarlu & B.S.R. Murthy
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Primarily intended for students of automobile, mechanical, electrical, aerospace engineering, and postgraduate students of thermal engineering and energy systems. In addition to the coverage of various alternative fuels considered for IC engines, special focus is given to research findings in the field of alternative fuels and fuel additives.

Plunkett Research, Ltd.

PLUNKETT'S AEROSPACE, AIRCRAFT, SATELLITES & DRONES INDUSTRY ALMANAC 2022

The Only Complete Guide to the Business of Aerospace, Aircraft, Satellites and Drones

Jack W. Plunkett
Nov 2021 502pp
9781628315981 Paperback £310.00 / €340.00

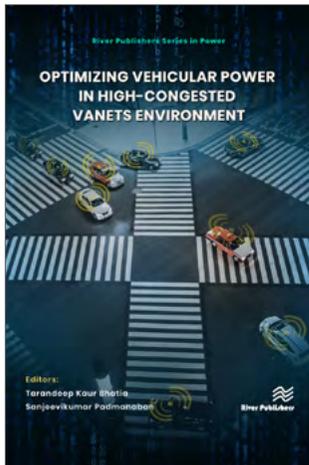
A complete market research guide to the aerospace, aircraft, satellites and drones industry—for strategic planning, competitive intelligence, employment searches or financial research. Features trends analysis, statistical tables and glossary. Provides profiles of hundreds of leading aerospace, aircraft, satellites and drones industry firms worldwide, public and private, containing addresses and executive contacts.

River Publishers

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Jiajia Liu
Sep 2021 196pp
9788770223676 Hardback £81.95 / €95.00
Security and Digital Forensics

Comprehensively and systematically introduces security threats to ICVs coming from automotive technology development, on-board sensors, vehicle networking, automobile communications, intelligent transportation, big data, cloud computing, etc. Then, through discussion of some typical automobile cyber-attack cases studies, readers will gain a deeper understanding of the working principle of ICVs, so that they can test vehicles more objectively and scientifically. In this way they will find the existence of vulnerabilities and security risks and take the corresponding protective measures to prevent malicious attacks.



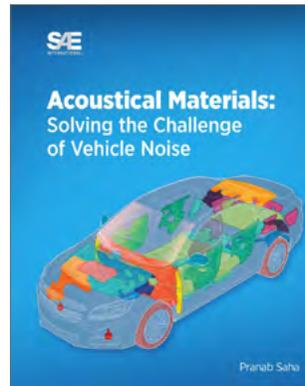
OPTIMIZING VEHICULAR POWER IN HIGH-CONGESTED VANETS ENVIRONMENT

Edited by Tarandeep Kaur Bhatia & Sanjeevikumar Padmanaban

Sep 2021 400pp
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River Publishers Series in Power

Presents a realistic introduction to the problems of power management faced by vehicles in a highly congested VANET environment and solves these by optimizing the vehicles' power performance through use of the new AI techniques.



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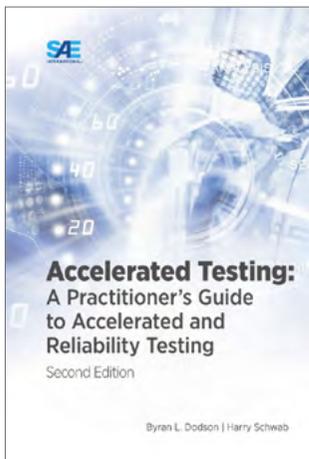
Third Edition

William Cole et al

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A worldwide reference for repair technicians and design engineers, the book is an outgrowth of the course syllabus that was developed by the Training Task Group of SAE's Commercial Aircraft Composite Repair Committee (CACRC).

SAE International



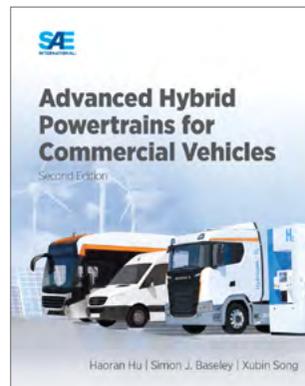
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Bryan L. Dodson & Harry Schwab

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Powertrains for commercial vehicles have evolved since the late nineteenth-century invention of the ICE. In this revised second edition, the authors explore commercial powertrains through history from the ICE through the introduction of the hybrid powertrain in commercial vehicles.



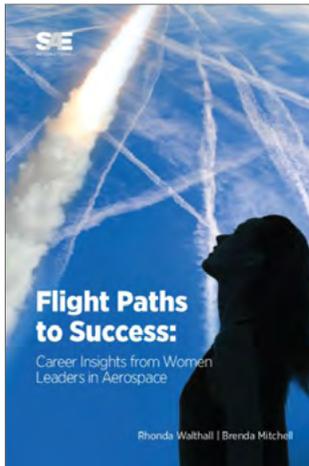
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R. Kyle Schmidt

May 2021 1,090 pp
9780768083422 Paperback
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Guides the reader through the key principles of landing system design and provides additional references when available. *The Design of Aircraft Landing Gear* is a landmark work in the industry, and a must-read for any engineer interested in updating specific skills and students preparing for an exciting career.



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FLIGHT PATHS TO SUCCESS
Career Insights from Women Leaders in Aerospace

Rhonda Walthall & Brenda Mitchell

Feb 2021 230pp
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Donald E. Malen

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changing design parameters on the behavior of automobile body structural elements.



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Samuel Davis

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Provides complete coverage for understanding how best to utilize the primary power source across all the EV's Electric Control Units. Readers will also be introduced to the qualification standards

of the Automotive Electronics Council (AEC). AEC standards are a 'one-time' qualification that typically takes place at the end of the development cycle.



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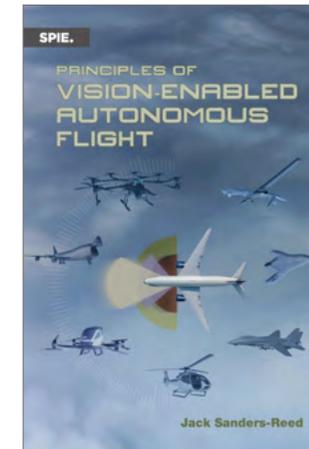
THE ROAD FORWARD
More Conversations with Top Women in the Automotive Industry

Carla Bailo & Terry Barclay

Jul 2021 420pp
 9781468602999 Paperback
 £39.50 / €45.00

Brings together over 70 of the most influential women in the automotive industry to share their insight and advice. As with their first book, *The Road to the Top*, Carla Bailo and Terry Barclay interview women in positions of leadership throughout the industry from suppliers, to OEMs and academia.

SPIE Press



PRINCIPLES OF VISION-ENABLED AUTONOMOUS FLIGHT

Jack Sanders-Reed

Sep 2021 130pp
 9781510646148 Paperback
 £47.50 / €54.00

Press Monographs, Vol. 335

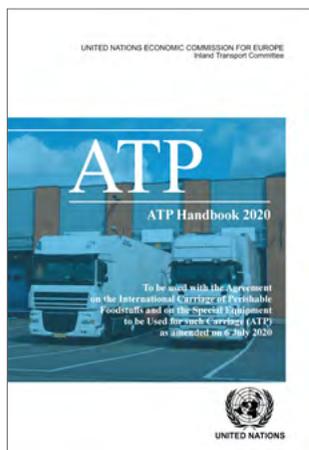
Addresses the role of vision systems for autonomous operations and discusses the critical tasks required of a vision system, including taxi, takeoff, en-route navigation, detect and avoid, and landing, as well as formation flight or approach and docking at a terminal or with other vehicles.



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TRANSPORTATION & LOGISTICS

United Nations Publications



ATP HANDBOOK 2020

To be used with the Agreement on the International Carriage of Perishable Foodstuffs and on the Special Equipment to be Used for such Carriage (ATP) as amended on 6 July 2020

United Nations Economic Commission for Europe

Jan 2021 144pp
9789211391909 Paperback
£27.50 / €32.00

Comprises the ATP Agreement itself and its Annexes with comments added where appropriate for

clarification or additional explanation of the text. Comments contained in the *ATP Handbook* are not legally binding for Contracting Parties of the ATP. They are, however, important for the interpretation, harmonization and application.

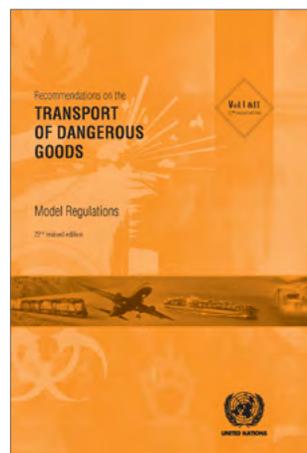
EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS (ADN) 2021

Applicable as from 1 January 2021

United Nations Economic Commission for Europe

Jan 2021 116pp
9789211391824 English Edition
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Paperback £172.00 / €198.00

The ADN has been in force since February 2008. This version has been prepared on the basis of amendments applicable as from 1 January 2021.



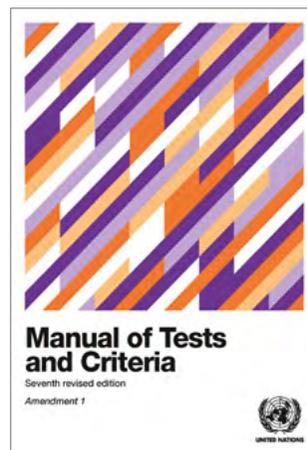
RECOMMENDATIONS ON THE TRANSPORT OF DANGEROUS GOODS

Model Regulations
Volumes I & II, 22nd Edition
United Nations Economic Commission for Europe

Sep 2021 890pp
9789211391886 English Edition
9789211391893 French Edition
Paperback £181.00 / €208.00

These recommendations have been developed by the United Nations Economic and Social Council's Committee of Experts on the Transport of Dangerous

Goods in the light of technical progress, the advent of new substances and materials, the exigencies of modern transport systems and, above all, the requirement to ensure the safety of people, property and the environment.



MANUAL OF TESTS AND CRITERIA

Seventh Revised Edition, Amendment 1

United Nations Economic Commission for Europe

Sep 2021 40pp
9789211391862 Paperback
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Contains criteria, test methods and procedures to be used for classification of dangerous goods according to the provisions of Parts 2 and 3 of the United Nations Recommendations on the Transport of Dangerous Goods, Model Regulations,

as well as of chemicals presenting physical hazards according to the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).



REVIEW OF MARITIME TRANSPORT 2020

United Nations Conference on Trade and Development

Feb 2021 162pp
9789211129939 Paperback
£86.50 / €99.00

Provides an in-depth analysis and update on developments in seaborne trade, the maritime industry, key performance indicators, and the regulatory environment. The 2020 issue counts on a number of novel data sets that help analyse the performance of seaports in terms of productivity and connectivity, as well as the world fleet in terms of emissions.



STRENGTHENING THE CAPACITY OF CENTRAL ASIAN COUNTRIES TO DEVELOP SUSTAINABLE URBAN MOBILITY POLICY ON CAR SHARING AND CARPOOLING INITIATIVES

United Nations Economic Commission for Europe

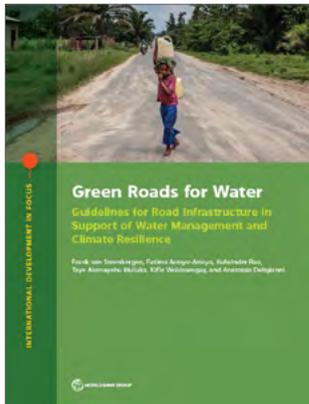
Jan 2021 106pp
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Provides a brief history of the emergence and development of shared mobility services, which

contribute to a more efficient use of available resources and to achieve a number of Sustainable Development Goals.

GENERAL

World Bank Group Publications



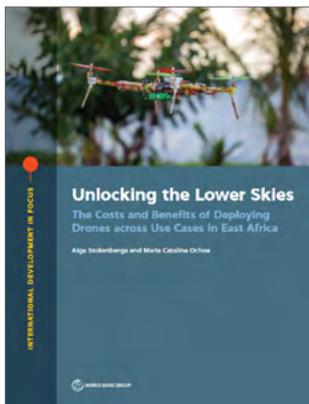
GREEN ROADS FOR WATER
Guidelines for Road Infrastructure in Support of Water Management and Climate Resilience

Fatima Arroyo-Arroyo et al
 Jul 2021 257pp
 9781464816772 Paperback
 £37.50 / €42.00

International Development in Focus

Outlines how to integrate water management and climate-change adaptation in the design, construction, and maintenance of

roads. The guidelines describe how the negative impact of roads on the surrounding landscape can be turned around, and how roads can become instruments of beneficial water management and increased climate resilience.



UNLOCKING THE LOWER SKIES
The Costs and Benefits of Deploying Drones Across Use Cases in East Africa

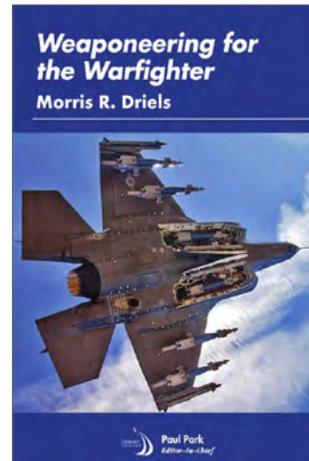
Aiga Stokenberga & Maria Catalina Ochoa
 Aug 2021 174pp
 9781464816963 Paperback
 £32.95 / €38.00

International Development in Focus

Explores the economic and broader societal rationale for introducing drone technologies as a complement

to the current transport and logistics systems in the East Africa context. Use cases include medical goods and food aid deliveries; land mapping and risk assessment; agriculture; and transport and energy infrastructure inspection.

American Institute of Aeronautics and Astronautics



WEAPONNEERING FOR THE WARFIGHTER

Morris R. Driels
 Sep 2021 500pp
 9781624106194 Hardback
 £71.50 / €81.00

Experience has shown warfighters desire to understand more than just the “buttonology” of using weaponneering tools since this does not provide background information on the assumptions, limitations, and reliability of the results they produce. There are many examples of trying to improve the probability of damage to the second decimal place when,

if the assumptions behind the result were understood, the futility of doing this would become obvious. This book therefore uses much of the knowledge and material utilized in the author’s previous texts, but with an emphasis on breadth rather than depth.

American Psychological Association

THE PSYCHOLOGY OF TECHNOLOGY

Edited by Sandra Matz
 Jan 2022 320pp
 9781433836268 Paperback £78.50 / €90.00

Brings together research from different subdisciplines across psychology to address the ways in which technology and Big Data are changing how psychological research is conducted. The book also examines how technology allows us to better understand human psychology.

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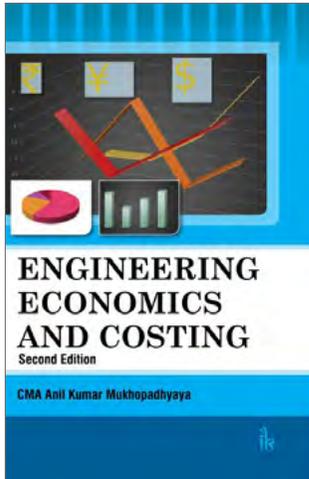


TECHNICAL WRITING A-Z
A Common Sense Guide to Engineering Reports and Theses, Second Edition

Trevor M. Young
 Mar 2021 254pp
 British English
 9780791884621 Paperback £31.50 / €35.00
 U.S. English
 9780791884614 Paperback £31.50 / €35.00

Not intended to be read from cover to cover, this book was designed instead to be a quick and useful reference for students, young engineers, and experienced professionals alike. It provides guidelines, advice, and technical information for preparing formal documents - covering a range of report formats.

IK International Pvt. Ltd



ENGINEERING ECONOMICS AND COSTING

Second Edition

Anil Kumar Mukhopadhyaya

Aug 2021 210pp
9789390620159 Paperback
£22.95 / €26.00

Focuses on two most important components of cost and economics for engineers. Engineers should have the knowledge of cost – how the cost elements are built up in different industries like, manufacturing industries and process industries for example. The underlying belief is that only with the pertinent knowledge engineers can control and improve cost.

McFarland



DEATH BY TECHNOLOGY

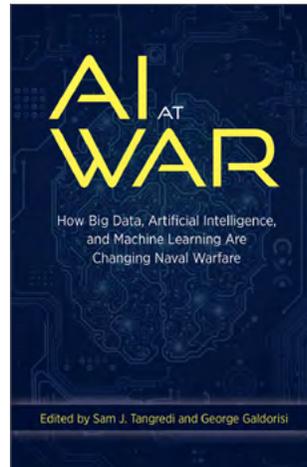
The Road to Hell Is Paved with Good Inventions

John R. Cook

Feb 2021 226pp
9781476680309 Paperback
£44.95 / €52.00

Argues that technology has become the new religion for the digital age, and that elevating technology to the status of deity serves as a mechanism to allow for the denial of problems created by reliance upon machines.

Naval Institute Press



AI AT WAR

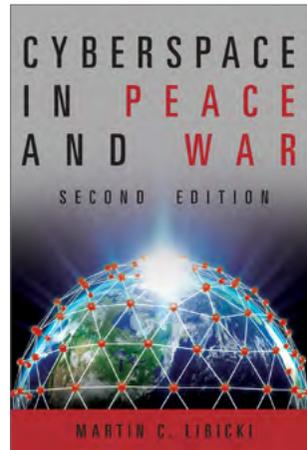
How Big Data Artificial Intelligence and Machine Learning Are Changing Naval Warfare

Edited by Sam J. Tangredi & George V. Galdorisi

Mar 2021 464pp
9781682476062 Hardback
£44.95 / €52.00

Provides a balanced and practical understanding of applying AI to national security and warfighting. Contributors present views on a vast spectrum of subjects pertaining to the implementation of AI in

modern warfare, including strategy, policy, doctrine, weapons, and ethical concerns.



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CYBERSPACE IN PEACE AND WAR

Second Edition

Martin Libicki

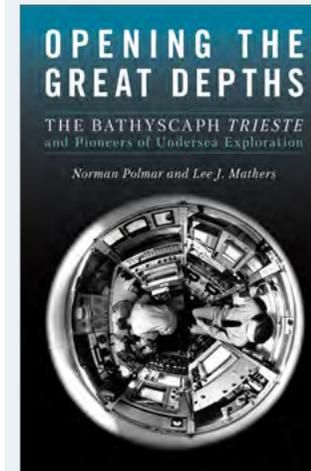
Sep 2021 512pp
9781682475867 Hardback
£54.50 / €63.00

Transforming War

Presents a comprehensive understanding of cybersecurity, cyberwar, and cyber-terrorism. From basic concepts to advanced principles, Martin Libicki examines the sources and consequences of

system compromises, addresses strategic aspects of cyberwar, and defines cybersecurity in the context of military operations.

★ HIGHLIGHT



OPENING THE GREAT DEPTHS

The Bathyscaph Trieste and Pioneers of Undersea Exploration

Norman C. Polmar & Lee Mathers

Apr 2021 304pp, 32 b&w illustrations
9781682475911 Hardback £41.50 / €47.00

Tells the story of the three Trieste deep-ocean vehicles, their officers and enlisted men, and the civilians, often told in their own words, documenting for the first time the earliest years of humanity's probing into Earth's final frontier.

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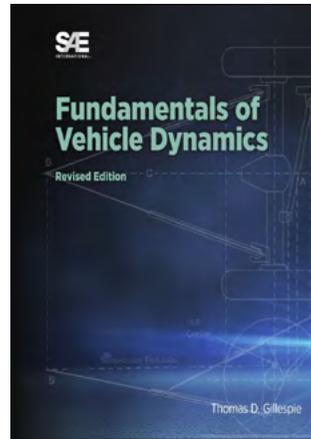
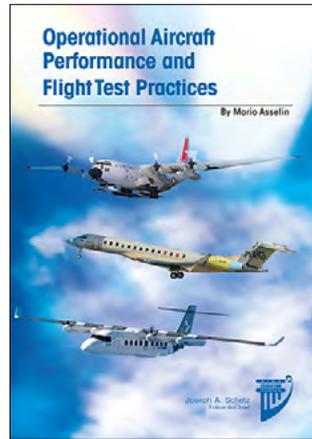
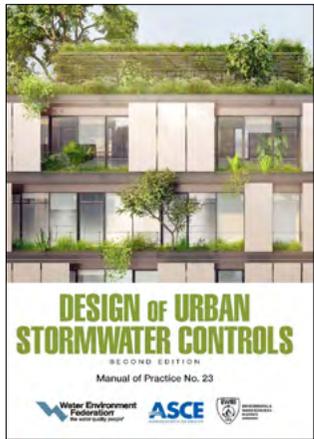
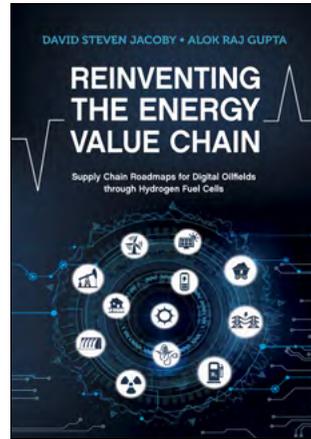
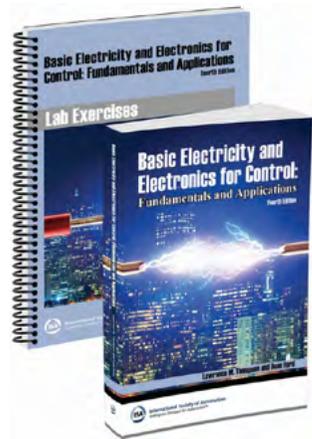
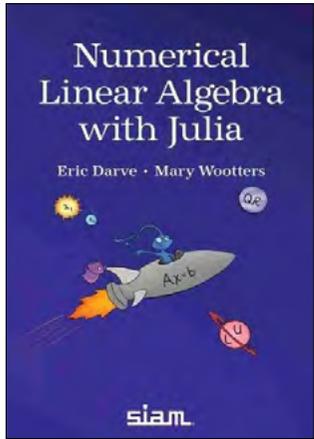
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