

## Advanced Accounting Book By Sohail Afzal Buyplusore

Arming readers with both theoretical and practical knowledge, *Advanced Linear Algebra for Engineers with MATLAB®* provides real-life problems that readers can use to model and solve engineering and scientific problems in fields ranging from signal processing and communications to electromagnetics and social and health sciences. Facilitating a unique understanding of rapidly evolving linear algebra and matrix methods, this book: Outlines the basic concepts and definitions behind matrices, matrix algebra, elementary matrix operations, and matrix partitions, describing their potential use in signal and image processing applications Introduces concepts of determinants, inverses, and their use in solving linear equations that result from electrical and mechanical-type systems Presents special matrices, linear vector spaces, and fundamental principles of orthogonality, using an appropriate blend of abstract and concrete examples and then discussing associated applications to enhance readers' visualization of presented concepts Discusses linear operators, eigenvalues, and eigenvectors, and explores their use in matrix diagonalization and singular value decomposition Extends presented concepts to define matrix polynomials and compute functions using several well-known methods, such as Sylvester's expansion and Cayley-Hamilton Introduces state space analysis and modeling techniques for discrete and continuous linear systems, and explores applications in control and electromechanical systems, to provide a complete solution for the state space equation Shows readers how to solve engineering problems using least square, weighted least square, and total least square techniques Offers a rich selection of exercises and MATLAB® assignments that build a platform to enhance readers' understanding of the material Striking the appropriate balance between theory and real-life applications, this book provides both advanced students and professionals in the field with a valuable reference that they will continually consult.

A natural long-chain polymer, chitin is the main component of the cell walls of fungi, the exoskeletons of arthropods (including crustaceans and insects), the radulas of mollusks, and the beaks and internal shells of cephalopods. However, marine crustacean shells are the primary sources of the chitin derivative chitosan. Chitin and chitosan are useful for various biological and biomedical applications, although they have been limited by poor solubility in the past. Current research focuses on increasing their solubility and bioactivity through molecular modifications. The resulting derivatives are receiving much attention for interesting properties, such as biocompatibility, biodegradability, and nontoxicity, that make them suitable for use in the biomedical field. *Chitin and Chitosan Derivatives: Advances in Drug Discovery and Developments* presents current research trends in the synthesis of chitin and chitosan derivatives, their biological activities, and their biomedical applications. Part I discusses basic information about the synthesis and characterization of

a variety of derivatives, including the preparation of chitin nanofibers. Part II covers chitin and chitosan modifications as the basis for biological applications. It describes antioxidant, anti-inflammatory, anticancer, antiviral, anticoagulant, and antimicrobial activities. Part III addresses chemically modified and composite materials of chitin and chitosan derivatives for biomedical applications, such as tissue engineering, nanomedicine, drug delivery, and wound dressing. A must-have reference for novices and experts in biotechnology, natural products, materials science, nutraceuticals, and biomedical engineering, this book presents a wide range of biological and biomedical applications of chitin and chitosan derivatives for drug discovery and development.

Nobody has everything they need, all the time – so how can we make do with what we have? Economics is all about understanding the choices we make to solve this problem. With bright, infographics pictures, this informative book describes why markets are so important, how businesses work out what to sell, and how governments choose how to run a country. Includes Usborne Quicklinks to specially selected websites for more information.

As an emerging global phenomenon, Islamic economics and the financial system has expanded exponentially in recent decades. Many components of the industry are still unknown, but hopefully, the lack of awareness will soon be stilled. The Handbook of Research on Theory and Practice of Global Islamic Finance provides emerging research on the latest global Islamic economic practices. The content within this publication examines risk management, economic justice, and stock market analysis. It is designed for financiers, banking professionals, economists, policymakers, researchers, academicians, and students interested in ideas centered on the development and practice of Islamic finance.

Auditing: Principles and Techniques is an attempt to explain the concepts, principles and techniques of auditing, and their applications in practical situations, in a simple and lucid language. The primary object of writing this book is to meet the requirements of undergraduate students of commerce stream for all the Universities in India. However, this book will also be very useful for the students doing M.Com, C.A., MBA and other professional courses. This book is also useful for a layman who is interested in knowing basics of auditing principles and techniques.

The text and images in this book are in grayscale. A hardback color version is available. Search for ISBN 9781680922929. Principles of Accounting is designed to meet the scope and sequence requirements of a two-semester accounting course that covers the fundamentals of financial and managerial accounting. This book is specifically designed to appeal to both accounting and non-accounting majors, exposing students to the core concepts of accounting in familiar ways to build a strong foundation that can be applied across business fields. Each chapter opens with a relatable real-life scenario for today's college student. Thoughtfully designed examples are presented throughout each chapter, allowing students to build on emerging accounting knowledge. Concepts are further reinforced through

applicable connections to more detailed business processes. Students are immersed in the "why" as well as the "how" aspects of accounting in order to reinforce concepts and promote comprehension over rote memorization.

This book tackles the latest research trends in technology acceptance models and theories. It presents high-quality empirical and review studies focusing on the main theoretical models and their applications across various technologies and contexts. It also provides insights into the theoretical and practical aspects of different technological innovations that assist decision-makers in formulating the required policies and procedures for adopting a specific technology.

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LitresAdvanced NanoelectronicsCRC Press

After the drug discovery and development process, designing suitable formulations to safely deliver the optimum dose, while avoiding side effects, has been a constant challenge, especially when drugs are very toxic and have poor solubility and undesirable clearance profiles. With recent advances in synthetic technologies, nanoparticles can be custom-made from a variety of advanced materials to mimic the bioenvironment and can be equipped with various targeting and imaging moieties for site-specific delivery and real-time imaging. Drug Delivery Using Nanomaterials covers advancements in the field of nanoparticle-based drug-delivery systems, along with all the aspects needed for a successful and marketable nanoformulation. FEATURES Offers a general overview of the entire process involved in the synthesis and characterization of pharmaceutical nanoparticles Covers a broad range of synthetic materials for developing nanoformulations customized for specific disease states, target organs, and drugs Every chapter sequentially builds, providing a progressive pathway from classical nanoparticles to the more advanced to be used as a full drug product by consumers Provides information in a bottom-up manner in that definitions and explanations of relevant background information serve as a framework for understanding advanced concepts This user-friendly reference is aimed at materials engineers, chemical engineers, biomedical engineers, pharmaceutical scientists, chemists, and others working on advanced drug delivery, from academia as well as industry.

Many different organizations and institutions around the world came together for a conference to discuss the meaning of evaluation in poverty reduction. Their goals during the two day conference were: first, to identify lessons from past efforts to evaluate poverty reduction programs; second, to search for the new evaluation frontier in methodology for future poverty reduction programs; and third, to discuss how partnerships in evaluation can be promoted and how to use evaluation results more effectively. This volume contains the proceedings of that conference.

Wiley IFRS® Standards 2020 is a revised and comprehensive resource that includes the information needed to interpret and apply the most recent International Financial Reporting Standards (IFRS®) as outlined by the International Accounting Standards Board (IASB). This accessible resource contains a wide range of practical examples as well as

invaluable guidance on the expanding framework for unified financial reporting. The authors provide IFRIC interpretations and directions designed to ensure a clear understanding of the most recent standards. The IFRS® standards are ever evolving, therefore it is essential that professionals and students have the information needed to apply the standards correctly in real-world cases. Wiley IFRS® Standards 2020 offers a complete, up-to-date reference that aids in the application of the latest international standards in a manner that is transparent, accountable and efficient. This edition includes IFRS 9 Financial Instruments; IFRS 15 Revenue from Contracts with Customers; IFRS 16 Leases and amendments issued and effective for annual periods beginning on or after 01 January 2019 as issued by the IASB by 30 June 2019. This edition also includes some introductory guidance for IFRS 17 Insurance Contracts and incorporates the revised Conceptual Framework for Financial Reporting 2018. This guide is written by the people passionate about IFRS® at PKF International. PKF International member firms specialise in providing high quality audit, accounting, tax, and business advisory solutions to international and domestic organisations around the globe. PKF International is a member of the Forum of Firms – an organisation dedicated to consistent and high-quality standards of financial reporting and auditing practices worldwide. [www.pkf.com](http://www.pkf.com). PKF International Limited administers a family of legally independent firms and does not accept any responsibility or liability for the actions or inactions of any individual member or correspondent firm or firms. All rights reserved.

Using limited energy resources in sustainable ways, energy engineers and technologists have made our lives comfortable and affordable. However, due to an expanding world population, global energy resources are being increasingly strained. Considering this scenario, effective energy management, energy efficiency, and a significant use of renewable energy sources are key strategies for meeting global energy requirements. Energy managers, researchers, scholars, and policy makers need to know all aspects of energy engineering and technology to deal with current energy issues. The Encyclopedia of Energy Engineering and Technology, Second Edition – Four-Volume Set provides cutting-edge scientific and engineering knowledge of the planning, development, operation, and economics of energy systems. Written by leading experts in their specialties and reviewed by subject-matter authorities, each topical entry in this quintessential reference: Describes the concepts, technologies, and theories involved, explaining their importance Reviews the evidence and scientific basis for the theories, including the latest research Supplies real-world examples and/or case studies to ensure a practical understanding Offers a helpful summary, noting future trends and potential applications Contains references and recommendations for further reading An invaluable resource for professionals in academia, business, industry, and government, as well as undergraduate and graduate students in different academic disciplines, the Encyclopedia of Energy Engineering and Technology, Second Edition – Four-Volume Set presents a

wealth of information on energy efficiency, renewable energy systems and technologies, the financial analysis of energy systems, energy economics, environmental regulations, sustainable development, green building, the use of nanotechnology to develop energy systems, energy storage, fuel cells, and more. Also Available Online This Taylor & Francis encyclopedia is also available through online subscription, offering a variety of extra benefits for researchers, students, and librarians, including: Citation tracking and alerts Active reference linking Saved searches and marked lists HTML and PDF format options Contact Taylor and Francis for more information or to inquire about subscription options and print/online combination packages. US: (Tel) 1.888.318.2367; (E-mail) [e-reference@taylorandfrancis.com](mailto:e-reference@taylorandfrancis.com) International: (Tel) +44 (0) 20 7017 6062; (E-mail) [online.sales@tandf.co.uk](mailto:online.sales@tandf.co.uk)

The future of disability in America will depend on how well the U.S. prepares for and manages the demographic, fiscal, and technological developments that will unfold during the next two to three decades. Building upon two prior studies from the Institute of Medicine (the 1991 Institute of Medicine's report *Disability in America* and the 1997 report *Enabling America*), *The Future of Disability in America* examines both progress and concerns about continuing barriers that limit the independence, productivity, and participation in community life of people with disabilities. This book offers a comprehensive look at a wide range of issues, including the prevalence of disability across the lifespan; disability trends the role of assistive technology; barriers posed by health care and other facilities with inaccessible buildings, equipment, and information formats; the needs of young people moving from pediatric to adult health care and of adults experiencing premature aging and secondary health problems; selected issues in health care financing (e.g., risk adjusting payments to health plans, coverage of assistive technology); and the organizing and financing of disability-related research. *The Future of Disability in America* is an assessment of both principles and scientific evidence for disability policies and services. This book's recommendations propose steps to eliminate barriers and strengthen the evidence base for future public and private actions to reduce the impact of disability on individuals, families, and society.

Violence has been a central feature of America's history, culture, and place in the world. It has taken many forms: from state-sponsored uses of force such as war or law enforcement, to revolution, secession, terrorism and other actions with important political and cultural implications. Religion also holds a crucial place in the American experience of violence, particularly for those who have found order and meaning in their worlds through religious texts, symbols, rituals, and ideas. Yet too often the religious dimensions of violence, especially in the American context, are ignored or overstated—in either case, poorly understood. *From Jeremiad to Jihad: Religion, Violence, and America* corrects these misunderstandings. Charting and interpreting the tendrils of religion and violence, this book reveals how formative moments of their intersection in American history have influenced the ideas, institutions, and identities associated with



the United States. Religion and violence provide crucial yet underutilized lenses for seeing America anew—including its outlook on, and relation to, the world.

Cost Accounting provides in-depth coverage of all cost accounting concepts, incorporating practical advice regarding their real-world usage. The text goes well beyond the traditional cost accounting topics of inventory valuation and cost analysis to also cover inventory management, price setting, target costing, constraint analysis, and budgeting. The material is designed to give the student exposure to how these topics are dealt with in a business environment.

This revised set of resources for Cambridge International AS and A Level Accounting syllabus (9706) is thoroughly updated for the latest version of the curriculum. Written by experienced authors, this coursebook unpacks accounting concepts in an engaging and accessible style. With clear definitions of up-to-date terminology, this resource is ideal for learners with a wide range of abilities, including those whose first language is not English. Practical walkthroughs illustrate the application of key accounting policies and practices, and activities reinforce knowledge and build analytical and evaluation skills. At the end of each chapter there are opportunities to practice multiple-choice and structured questions to help prepare students for their assessment.

Offering a wide range of programming examples implemented in MATLAB(R), Computational Intelligence Paradigms: Theory and Applications Using MATLAB(R) presents theoretical concepts and a general framework for computational intelligence (CI) approaches, including artificial neural networks, fuzzy systems, evolutionary computation, genetic algorithms and programming, and swarm intelligence. It covers numerous intelligent computing methodologies and algorithms used in CI research. The book first focuses on neural networks, including common artificial neural networks; neural networks based on data classification, data association, and data conceptualization; and real-world applications of neural networks. It then discusses fuzzy sets, fuzzy rules, applications of fuzzy systems, and different types of fused neuro-fuzzy systems, before providing MATLAB illustrations of ANFIS, classification and regression trees, fuzzy c-means clustering algorithms, fuzzy ART map, and Takagi-Sugeno inference systems. The authors also describe the history, advantages, and disadvantages of evolutionary computation and include solved MATLAB programs to illustrate the implementation of evolutionary computation in various problems. After exploring the operators and parameters of genetic algorithms, they cover the steps and MATLAB routines of genetic programming. The final chapter introduces swarm intelligence and its applications, particle swarm optimization, and ant colony optimization. Full of worked examples and end-of-chapter questions, this comprehensive book explains how to use MATLAB to implement CI techniques for the solution of biological problems. It will help readers with their work on evolution dynamics, self-organization, natural and artificial morphogenesis, emergent collective behaviors, swarm intelligence, evolutionary strategies, genetic

programming, and the evolution of social behaviors.

An epic saga of love and war, *Shadow of the Swords* tells the story of the Crusades—from the Muslim perspective. Saladin, a Muslim sultan, finds himself pitted against King Richard the Lionheart as Islam and Christianity clash against each other, launching a conflict that still echoes today. In the midst of a brutal and unforgiving war, Saladin finds forbidden love in the arms of Miriam, a beautiful Jewish girl with a tragic past. But when King Richard captures Miriam, the two most powerful men on Earth must face each other in a personal battle that will determine the future of the woman they both love—and of all civilization. Richly imagined, deftly plotted, and highly entertaining, *Shadow of the Swords* is a remarkable story that will stay with readers long after the final page has been turned.

Maximizing the potential of RNA interference in functional genomics - as well as in the development of therapeutics - continues to be at the forefront of biomedical research. Unlike journal articles, *Gene Silencing by RNA Interference: Technology and Application* combines essential background to the RNAi field with practical techniques designed by renowned researchers to provide the most diverse and in-depth examination of the subject yet. This book describes methods and protocols for gene silencing and RNA interference. Each chapter provides necessary background to the subject and then gives detailed methods in easy-to-follow steps, along with troubleshooting hints and tips. Following a general and historical introduction, chapters two through eight focus on technical details of the various methods of siRNA design, chemical and enzymatic production, plasmid- and virus-mediated intracellular expression, and other RNAi tools. Chapter nine discusses the exogenous delivery of siRNAs into cells, and the final chapters of the book detail the application of RNAi to dissect gene function in a number of biological systems, including cell-free systems, cultured cells, and whole organisms. From the design and production of RNAi tools to their applications, *Gene Silencing by RNA Interference: Technology and Application* is the first to present the entire spectrum of activity, design, production, and delivery of RNAi reagents, providing a welcome guide for both academic and commercial use.

*Business Accounting* is the world's best-selling textbook on bookkeeping and accounting. Its clear explanations, in simple language, a wealth of worked examples and large number of questions and answers, have made it a popular choice with both students and lecturers for over thirty years. Other popular features are its comprehensiveness, the clarity of presentation and layout and the structured manner in which it builds knowledge in logically progressing short chapters. In this edition the distribution of chapters between the two volumes has been rationalised. Volume 1 now includes more-complete coverage of special accounting procedures and partnerships. Chapters on partnership dissolution, joint venture accounts, bills of exchange, and consignment accounts, have been incorporated from Volume 2. A selection of recent questions from examining boards and professional bodies has been included.

Deeper City is the first major application of new thinking on 'deeper complexity', applied to grand challenges such as runaway urbanization, climate change and rising inequality. The author provides a new framework for the collective intelligence – the capacity for learning and synergy – in many-layered cities, technologies, economies, ecologies and political systems. The key is in synergistic mapping and design, which can move beyond smart 'winner-takes-all' competition, towards wiser human systems of cooperation where 'winners-are-all'. Forty distinct pathways 'from smart to wise' are mapped in Deeper City and presented for strategic action, ranging from local neighbourhoods to global finance. As an atlas of the future, and resource library of pathway mappings, this book expands on the author's previous work, City-Region 2020. From a decade of development and testing, Deeper City combines visual thinking with a narrative style and practical guidance. This book will be indispensable for those seeking a sustainable future – students, politicians, planners, systems designers, activists, engineers and researchers. A new postscript looks at how these methods can work with respect to the 2020 pandemic, and asks, 'How can we turn crisis towards transformation?' The book explores basic concepts and advanced topics in the field of water technologies. It deals extensively with advances in materials, material selection, preparation, characterization and application. The relevance of water technologies in industries is considered, and a section is dedicated to describing and analyzing the technologies required for water reuse and advanced purification, including desalination. Nuclear desalination, low-carbon desalination and water purification technologies to address the adverse impacts of climate change are examined from both the adaptation and mitigation points of view. Aimed at senior undergraduate/graduate students in chemical, civil and environmental engineering, along with wastewater and desalination researchers, this book: Details advanced water treatments for varied processes. Describes membrane and desalination techniques for water reuse and advanced purification. Elaborates water technologies at both the front and back ends of the process. Discusses modern technologies for effluent treatment and water recycling. Explores the role of information technology in the water sector.

#### 2021-22 Airports Authority of India Junior Executive SOLVED PAPERS

While theories based on classical physics have been very successful in helping experimentalists design microelectronic devices, new approaches based on quantum mechanics are required to accurately model nanoscale transistors and to predict their characteristics even before they are fabricated. Advanced Nanoelectronics provides research information on advanced nanoelectronics concepts, with a focus on modeling and simulation. Featuring contributions by researchers actively engaged in nanoelectronics research, it develops and applies analytical formulations to investigate nanoscale devices. The book begins by introducing the basic ideas related to quantum theory that are needed to better understand nanoscale structures found in nanoelectronics, including graphenes, carbon nanotubes, and quantum wells, dots, and



wires. It goes on to highlight some of the key concepts required to understand nanotransistors. These concepts are then applied to the carbon nanotube field effect transistor (CNTFET). Several chapters cover graphene, an unzipped form of CNT that is the recently discovered allotrope of carbon that has gained a tremendous amount of scientific and technological interest. The book discusses the development of the graphene nanoribbon field effect transistor (GNRFET) and its use as a possible replacement to overcome the CNT chirality challenge. It also examines silicon nanowire (SiNW) as a new candidate for achieving the downscaling of devices. The text describes the modeling and fabrication of SiNW, including a new top-down fabrication technique. Strained technology, which changes the properties of device materials rather than changing the device geometry, is also discussed. The book ends with a look at the technical and economic challenges that face the commercialization of nanoelectronics and what universities, industries, and government can do to lower the barriers. A useful resource for professionals, researchers, and scientists, this work brings together state-of-the-art technical and scientific information on important topics in advanced nanoelectronics.

Ever since the discovery of graphene, two-dimensional layered materials (2DLMs) have been the central tool of the materials research community. The reason behind their importance is their superlative and unique electronic, optical, physical, chemical and mechanical properties in layered form rather than in bulk form. The 2DLMs have been applied to electronics, catalysis, energy, environment, and biomedical applications. The following topics are discussed in the book's fifteen chapters:

- The research status of the 2D metal-organic frameworks and the different techniques used to synthesize them.
- 2D black phosphorus (BP) and its practical application in various fields.
- Reviews the synthesis methods of MXenes and provides a detailed discussion of their structural characterization and physical, electrochemical and optical properties, as well as applications in catalysis, energy storage, environmental management, biomedicine, and gas sensing.
- The carbon-based materials and their potential applications via the photocatalytic process using visible light irradiation.
- 2D materials like graphene, TMDCs, few-layer phosphorene, MXene in layered form and their heterostructures.
- The structure and applications of 2D perovskites.
- The physical parameters of pristine layered materials, ZnO, transition metal dichalcogenides, and heterostructures of layered materials are discussed.
- The coupling of graphitic carbon nitride with various metal sulfides and oxides to form efficient heterojunction for water purification.
- The structural features, synthetic methods, properties, and different applications and properties of 2D zeolites.
- The methods for synthesizing 2D hollow nanostructures are featured and their structural aspects and potential in medical and non-medical applications.
- The characteristics and structural aspects of 2D layered double hydroxides (LDHs) and the various synthesis methods and role of LDH in non-medical applications as adsorbent, sensor, catalyst, etc.
- The synthesis of graphene-based 2D layered materials synthesized by using top-down and bottom-up approaches where the

main emphasis is on the hot-filament thermal chemical vapor deposition (HFTCVD) method. • The different properties of 2D h-BN and borophene and the various methods being used for the synthesis of 2D h-BN, along with their growth mechanism and transfer techniques. • The physical properties and current progress of various transition metal dichalcogenides (TMDC) based on photoactive materials for photoelectrochemical (PEC) hydrogen evolution reaction. • The state-of-the-art of 2D layered materials and associated devices, such as electronic, biosensing, optoelectronic, and energy storage applications.

With coherent mixing in the optical domain and processing in the digital domain, advanced receiving techniques employing ultra-high speed sampling rates have progressed tremendously over the last few years. These advances have brought coherent reception systems for lightwave-carried information to the next stage, resulting in ultra-high capacity global internetworking. *Digital Processing: Optical Transmission and Coherent Receiving Techniques* describes modern coherent receiving techniques for optical transmission and aspects of modern digital optical communications in the most basic lines. The book includes simplified descriptions of modulation techniques for such digital transmission systems carried by light waves. It discusses the basic aspects of modern digital optical communications in the most basic lines. In addition, the book covers digital processing techniques and basic algorithms to compensate for impairments and carrier recovery, as well as noise models, analysis, and transmission system performance.

In a city mired in endless decay, where the youth suffer through all the horrors of urban blight, hope comes in a most unassuming form: a tiny brick schoolhouse run by two Felician nuns where a singular basketball genius takes teenagers from the mean streets of Jersey City and turns them into champions on the hardcourt. Coach Bob Hurley had been working miracles at St. Anthony High School for over thirty years, winning state and national championships and offering his players rescue from their surroundings through college scholarships, when he met his most dysfunctional team yet. *The Miracle of St. Anthony* Adrian Wojnarowski follows Hurley through a gripping and heartrending season as he struggles to lead a troubled team to glory through his unparalleled understanding of the game and his ceaseless determination to see no more children lost to these streets. In *The Miracle of St. Anthony*, acclaimed sports journalist Adrian Wojnarowski follows Hurley through a gripping and heartrending season, as he struggles to lead a troubled team to glory through his unparalleled understanding of the game and his ceaseless determination to see no more children lost to the city streets.

4LTR Press solutions give students the option to choose the format that best suits their learning preferences. This option is perfect for those students who focus on the textbook as their main course resource. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Micro- and Nanoelectronics: Emerging Device Challenges and Solutions presents a comprehensive overview of the current state of the art of micro- and nanoelectronics, covering the field from fundamental science and material properties to novel ways of making nanodevices. Containing contributions from experts in both industry and academia, this cutting-edge text: Discusses emerging silicon devices for CMOS technologies, fully depleted device architectures, characteristics, and scaling Explains the specifics of silicon compound devices (SiGe, SiC) and their unique properties Explores various options for post-CMOS nanoelectronics, such as spintronic devices and nanoionic switches Describes the latest developments in carbon nanotubes, iii-v devices structures, and more Micro- and Nanoelectronics: Emerging Device Challenges and Solutions provides an excellent representation of a complex engineering field, examining emerging materials and device architecture alternatives with the potential to shape the future of nanotechnology.

Most Repeated and Expected MCQS

Cambridge International AS and A Level Accounting has been endorsed by University of Cambridge International Examinations.

Ten years ago, D.M. Rowe introduced the bestselling CRC Handbook of Thermoelectrics to wide acclaim. Since then, increasing environmental concerns, desire for long-life electrical power sources, and continued progress in miniaturization of electronics has led to a substantial increase in research activity involving thermoelectrics. Reflecting the latest trends and developments, the Thermoelectrics Handbook: Macro to Nano is an extension of the earlier work and covers the entire range of thermoelectrics disciplines. Serving as a convenient reference as well as a thorough introduction to thermoelectrics, this book includes contributions from 99 leading authorities from around the world. Its coverage spans from general principles and theoretical concepts to material preparation and measurements; thermoelectric materials; thermoelements, modules, and devices; and thermoelectric systems and applications. Reflecting the enormous impact of nanotechnology on the field-as the thermoelectric properties of nanostructured materials far surpass the performance of conventional materials-each section progresses systematically from macro-scale to micro/nano-scale topics. In addition, the book contains an appendix listing major manufacturers and suppliers of thermoelectric modules. There is no longer any need to spend hours plodding through the journal literature for information. The Thermoelectrics Handbook: Macro to Nano offers a timely, comprehensive treatment of all areas of thermoelectrics in a single, unified reference.

Advanced Oxidation Processes – Applications, Trends, and Prospects constitutes a comprehensive resource for civil, chemical, and environmental engineers researching in the field of water and wastewater treatment. The book covers the fundamentals, applications, and future work in Advanced Oxidation Processes (AOPs) as an attractive alternative and a complementary treatment option to conventional methods. This book also presents state-of-the-art research on AOPs and heterogeneous catalysis while covering recent progress and trends, including the application of AOPs at the laboratory, pilot, or industrial scale, the combination of AOPs with other technologies, hybrid processes, process intensification, reactor design, scale-up, and optimization. The book is divided into four sections: Introduction to Advanced Oxidation Processes, General Concepts of Heterogeneous Catalysis, Fenton and Ferrate in Wastewater Treatment, and Industrial Applications, Trends, and Prospects.

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