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Engineering and Technology Management Tools and Applications
Routledge

Affordable and effective domestic wastewater treatment is a critical issue in public health and disease prevention around the world, particularly so in developing countries which often lack the financial and technical resources necessary for proper treatment facilities. This practical guide provides state-of-the-art coverage of methods for domestic wastewater treatment and provides a foundation to the practical design of wastewater treatment and re-use systems. The emphasis is on low-cost, low-energy, low-maintenance, high-performance 'natural' systems that contribute to environmental sustainability by producing effluents that can be safely and profitably used in agriculture for crop irrigation and/or in aquaculture, for fish and aquatic vegetable pond fertilization. Modern design methodologies, with worked design examples, are described for waste stabilization ponds, wastewater storage and treatment reservoirs; constructed wetlands, upflow anaerobic sludge blanket reactors, biofilters, aerated lagoons and oxidation ditches. This book is essential reading for engineers, academics and upper-level and graduate students in engineering, wastewater management and public health, and others interested in sustainable and cost-effective technologies for reducing wastewater-related diseases and environmental damage.

Domestic Wastewater Treatment in Developing Countries
Butterworth-Heinemann

There can be few modern feats of engineering achievement that surpass the great pyramids of Ancient Egypt. The sheer scale of the technological and physical challenge facing the creators of these superstructures was immense. The management skills demanded of those early engineers were equally impressive. The desires of the customers (the Pharaohs) had to be fulfilled while co-ordinating, controlling and monitoring the subcontractors (the artisans) and the employees (the slaves), as well as ensuring the optimum use of material resource. Engineering management is no simpler today and both new and experienced engineers find it difficult to come to terms with this non-technical subject. Fraidoon Mazdais book provides an accessible and comprehensive guide to management that will be useful for students, new managers and experienced engineers alike. Using a fictional company as a case-study throughout the text, theory is repeatedly related to practice, providing a realistic picture of modern engineering industry. All the management functions that are part of a medium or large-sized organization are covered from basic people skills to business strategy, decision making, financial management, project management, manufacturing operations, marketing and sales. Whether you are a student undertaking a course on management or a professional engineer needing some practical advice, Engineering Management provides the answers you are looking for. Had the engineering managers of the Egyptian pyramids been able to use this book, their life would probably have been made a lot easier! Key Features is written in an accessible but authoritative style is relevant to any engineering discipline provides practical advice on management in industry covers both numerical and behavioural topics "

Smart Innovations in Engineering and Technology CRC Press
Creating Excellence, first published in 1984, proposes a rational yet visionary blend of approaches for a winning, strategy-driven culture that can provide you and your company with the confidence that gets results. Based on a programme of six essential leadership skills – vision, sensitivity, insight, versatility, focus, and patience – this step-by-step blueprint for organisational excellence shows the New Age Executive exactly how to: Know your firm ’ s capabilities – and make the most of them Motivate your people to peak performance Respond positivity to change from within and without Develop long-term goals and see them through And turn crisis into opportunity All these principles are illustrated with fascinating case studies of the most spectacular successes and failures in the history of American enterprise. In addition, hands-on ‘ exercises ’ will enable you to test their application to the concerns of your own organisation. Whether you work for a small business or a vast conglomerate, in a hot new industry or a mature, stable environment, Creative Excellence can help make you the most important corporate asset of the eighties – and beyond.

Network Analysis, Architecture, and Design OUP
Southern Africa

Contemporary Issues in Human Resource Management
4th edition presents both global and local perspectives on the issues that human resource management face in the modern workplace.

Autonomy, Oppression, and Gender Society of
Automotive Engineers

Power Electronics Handbook: Components, Circuits, and Applications is a collection of materials about power components, circuit design, and applications.

Presented in a practical form, theoretical information is given as formulae. The book is divided into three parts. Part 1 deals with the usual components found in power electronics such as semiconductor devices and power semiconductor control components, their electronic compatibility, and protection. Part 2 tackles parts and principles related to circuits such as switches; link frequency chargers; converters; and AC line control, and Part 3 covers the applications for semiconductor circuits. The text is recommended for engineers and electricians who need a concise and easily accessible guide on power electronics.

Power Electronics Handbook Springer Science & Business Media

Carbonate reservoirs contain an increasingly important percentage of the worlds hydrocarbon reserves. This volume presents key recent advances in carbonate exploration and reservoir analysis.

Contemporary Issues in Human Resource Management
Springer

This volume reviews our current understanding and ability to model the complex distribution and behaviour of fault and fracture networks, highlighting their fluid compartmentalizing effects and storage-transmissivity characteristics, and outlining approaches for predicting the dynamic fluid flow and geomechanical behaviour of these reservoirs. This collection of 25 papers provides an overview of recent progress and outstanding issues in the areas of structural complexity and fault geometry, detection and prediction of faults and fractures, compartmentalizing effects of fault systems and complex siliciclastic reservoirs and critical controls affecting fractured reservoirs.

Telecommunications Engineer's Reference Book Edward
Elgar Publishing

The Focal Illustrated dictionary of Telecommunications is an invaluable resource for anyone studying, entering, or already working in the telecommunications industry. * Written by experts with specialist knowledge * Contains essential data for on-the-job use * Includes over 6,000 terms, definitions and acronyms * Has over 350 line drawings * The most comprehensive reference source of this nature A Technical Manager for Nortel Networks, Fraidoon Mazda has held various senior technical posts within the electronics and telecommunications industries. He is editor of the Telcommunications Engineer's Reference Book, now in its second edition, and has also edited a series of eight pocketbooks derived from this major work. Since obtaining his PhD from Cambridge University, Dr. Xerxes Mazda has worked at the Science Museum, London, in various research and management positions. He is currently the Associate Curator of Communications.

Information Ecology McGraw-Hill College

Telecommunications Engineer's Reference Book maintains a balance between developments and established technology in telecommunications. This book consists of four parts. Part 1 introduces mathematical techniques that are required for the analysis of telecommunication systems. The physical environment of telecommunications and basic principles such as the teletraffic theory, electromagnetic waves, optics and vision, ionosphere and troposphere, and signals and noise are described in Part 2. Part 3 covers the political and regulatory environment of the telecommunications industry, telecommunication standards, open system interconnect reference model, multiple access techniques, and network management. The last part deliberates telecommunication applications that includes synchronous digital hierarchy, asynchronous transfer mode, integrated services digital network, switching systems, centrex, and call management. This publication is intended for practicing engineers, and as a supplementary text for undergraduate courses in telecommunications.

Civil Engineering Project Management, Fourth Edition
Geological Society of London

The Springer Handbook of Enzymes provides concise data on some 5,000 enzymes sufficiently well characterized – and here is the second, updated edition. Their application in analytical, synthetic and biotechnology processes as well as in food industry, and for medicinal treatments is added. Data sheets are arranged in their EC-Number sequence. The new edition reflects considerable progress in enzymology: the total

material has more than doubled, and the complete 2nd edition consists of 39 volumes plus Synonym Index. Starting in 2009, all newly classified enzymes are treated in Supplement Volumes.
The Standard Handbook for Aeronautical and Astronautical Engineers CRC Press
Engineering ManagementPrentice Hall
Applied Mathematics for Business, Economics, and the Social Sciences Independently Published
The state-of-the-art in multimedia content analysis, media foundations, and compression Covers digital audio, images, video, graphics, and animation Includes real-world project sets that help you build and test your expertise By two of the world's leading experts in advanced multimedia systems development The practical, example-rich guide to media coding and content processing for every multimedia developer. From DVDs to the Internet, media coding and content processing are central to the effective delivery of high-quality multimedia. In this book, two of the field's leading experts introduce today's state-of-the-art, presenting realistic examples and projects designed to help implementers create multimedia systems with unprecedented performance. Ralf Steinmetz and Klara Nahrstedt introduce the fundamental characteristics of digital audio, images, video, graphics, and animation; demonstrate powerful new approaches to content analysis and compression; and share expert insights into system and end-user issues every advanced multimedia professional must understand. Coverage includes: Generic characteristics of multimedia and data streams, and their impact on multimedia system design Essential audio concepts and representation techniques: sound perception, psychoacoustics, music, MIDI, Speech signals, and related I/O and transmission issues Graphics and image characteristics: image formats, analysis, synthesis, reconstruction, and output Video signals, television formats, digitization, and computer-based animation issues Fundamental compression methods: run-length, Huffman, and subband coding Multimedia compression standards: JPEG, H.232, and various MPEG techniques Optical storage technologies and techniques: CD-DA, CD-ROM, DVD, and beyond Content processing techniques: Image analysis, video processing, cut detection, and audio analysis First in an authoritative 3-volume set on tomorrow's robust multimedia desktop: real-time audio, video, and streaming media. Multimedia Fundamentals offers a single, authoritative source for the knowledge and techniques you need to succeed with any advanced multimedia development project. Look for Volume 2 focusing on networking and operating system-related issues, and Volume 3 focusing on service and application issues.

Managerial Finance Taylor & Francis
Practice-Based Education: Perspectives and Strategies. This book draws on the collective vision, research, scholarship and experience of leading academics in the field of practice-based and professional education. It presents multiple perspectives and critical appraisals on this significant trend in higher education and examines strategies for implementing this challenging and inspiring mode of learning, teaching and curriculum development. Eighteen chapters are presented across three sections of the book: Contesting and Contextualising Practice-Based Education Practice-Based Education Pedagogy and Strategies The Future of Practice-Based Education.

Civil Engineering: Supervision and Management Springer
Science & Business Media
Experts in the fields of organizational politics and justice explore the nuances of organizational life. They analyze how these concepts work alone and in concert with each other to influence employees' perceptions of and reactions to their organizations. One argument concludes that managers use politics to compensate for the inadequacies in the current approach to human resources management, while another finds that support and justice benefit the employer, not the employee. Practitioners and scholars in human resources, organizational behavior, psychology, and business law will find new and controversial interpretations of human behavior in the workplace.

Creating Excellence Springer Science & Business Media
This book is the result of the extensive experience the authors gained through their year-long occupation at the Faculty of Electrical Engineering at the University of Banja Luka. Starting at the fundamental basics of electrical engineering, the book guides the reader into this field and covers all the relevant types of converters and regulators. Understanding is enhanced by the given examples, exercises and solutions. Thus this book can be used as a textbook for students, for self-study or as a reference book for professionals.

Industrial Power Distribution ESI International
Incentives provided by European governments have

resulted in the rapid growth of the photovoltaic (PV) market. Many PV modules are now commercially available, and there are a number of power electronic systems for processing the electrical power produced by PV systems, especially for grid-connected applications. Filling a gap in the literature, Power Electronics and Control Techniques for Maximum Energy Harvesting in Photovoltaic Systems brings together research on control circuits, systems, and techniques dedicated to the maximization of the electrical power produced by a photovoltaic (PV) source. Tools to Help You Improve the Efficiency of Photovoltaic Systems The book supplies an overview of recent improvements in connecting PV systems to the grid and highlights various solutions that can be used as a starting point for further research and development. It begins with a review of methods for modeling a PV array working in uniform and mismatched conditions. The book then discusses several ways to achieve the best maximum power point tracking (MPPT) performance. A chapter focuses on MPPT efficiency, examining the design of the parameters that affect algorithm performance. The authors also address the maximization of the energy harvested in mismatched conditions, in terms of both power architecture and control algorithms, and discuss the distributed MPPT approach. The final chapter details the design of DC/DC converters, which usually perform the MPPT function, with special emphasis on their energy efficiency. Get Insights from the Experts on How to Effectively Implement MPPT Written by well-known researchers in the field of photovoltaic systems, this book tackles state-of-the-art issues related to how to extract the maximum electrical power from photovoltaic arrays under any weather condition. Featuring a wealth of examples and illustrations, it offers practical guidance for researchers and industry professionals who want to implement MPPT in photovoltaic systems.

Power Electronics Prentice Hall

How is the world of professions and professional work changing? This book offers both an overview of current debates surrounding the nature of professional work, and the implications for change brought about by the managerialist agenda. The relationships professionals have with their organizations are variable, indeterminate and uncertain, and there is still debate over the ways in which these should be characterized and theorized. The contributors discuss these implications with topics including hybrid organizations and hybrid professionalism; the changing nature of professional and managerial work; profession and identity; and the emergence of HRM as a new managerial profession. This book will be of interest to academics and postgraduate students seeking a comparative study on contemporary professional work. It will also be of use to a number of practitioners, namely human resource managers, looking for ways in which to approach the changing professional world.

Engineering Management Artech House

Overview and Analysis of Julie Zhuo's The Making of a Manager by Summary Genie.In this book, you will find: -Chapter by Chapter Analysis-Background information about the book-Background information about the author-Trivia QuestionsAnd More!Download and Start Reading Immediately!Note: This is an unofficial companion guide to Julie Zhuo's "The Making of a Manager" It is meant to enhance your reading experience and is not the original book Organizational Politics, Justice, and Support Elsevier These new essays examine philosophical issues at the intersection of feminism and autonomy studies. Are autonomy and independence useful goals for women and subordinate persons? Is autonomy possible in contexts of social subordination and oppression? Is the pursuit of desires that issue from patriarchal norms consistent with autonomous agency? How should we understand the concepts of relational autonomy and adaptive preferences? How do emotions and caring relate to autonomous deliberation? Contributors to this collection answer these and related questions.

Advances in Carbonate Exploration and Reservoir Analysis Butterworth-Heinemann

This new edition of Industrial Power Distribution addresses key areas of electric power distribution from an end-user perspective, which will serve industry professionals and students develop the necessary skills for the power engineering field. Expanded treatment of one-line diagrams, the per-unit system, complex power, transformer connections, and motor applications New topics in this edition include lighting systems and arc flash hazard Concept of AC Power is developed step by step from the basic definition of power Fourier analysis is described in a graphical sense End-of-chapter exercises If you are an instructor and adopted this book for your course, please email ieeeproposals@wiley.com to get access to the instructor files for this book.