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Oil & Gas Engineering Audiobook - Chapters 1 & 2 Introduction - Oil & Gas Engineering Audiobook - Chapters 1 & 2 Introduction by Herve Baron 56,745 views 8 years ago 18 minutes - Description of the development of **Engineering**, for an **Oil**, & Gas Project.

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Software Testing

"Software Testing: Principles and Practices is a comprehensive treatise on software testing. It provides a pragmatic view of testing, addressing emerging areas like extreme testing and ad hoc testing"--Resource description page.

What are the Things We Want to Know in Pc?

Schaum's Outline of Probability and Statistics has become a vital resource for the more than 977,000 college students who enroll in related probability and statistics courses each year. Its big-picture, calculus-based approach makes it an especially authoritative reference for engineering and science majors. Now thoroughly updated, this second edition includes vital new coverage of order statistics, best critical regions, likelihood ratio tests, and other key topics.

Schaum's Outline of Theory and Problems of Probability and Statistics

This book is a do-it-yourself guide for clinicians who wish to set up and run a telemedicine facility of their own. The contents are largely based on the understanding and experience gained by the author as a practising physician, management post-graduate (capstone thesis was on telemedicine) and as a business architect for digital health systems over more than thirty years. Full of management techniques, tricks and tips written in an easy-to-follow manner, this book provides sufficient information to clinicians looking to leverage telemedicine to augment their range of service offerings that would lead to increased levels of patient satisfaction. Various aspects related to definitions, technology, infrastructure, methodologies and legal issues for setting up and running telemedicine services have been dealt with to sufficient depths for the readers to help grasp the issues involved. Sections on privacy, confidentiality and data integrity have been provided to help allay the many concerns the readers might have in those regards. Additionally, financial evaluations based on realistic-enough figures have been used to demonstrate that telemedicine is a viable option financially. Although meant primarily for medical doctors, any care provider including institutional will be able to use the contents to plan, design, set up and run telemedicine services that they feel would benefit those who receive their care.

A DIY Guide to Telemedicine for Clinicians

This Current Affairs Monthly Capsule December 2021 E-book will help you understand in detail exam-related important news including National & International Affairs, Defence, Sports, Person in News, MoU & Agreements, S&T, Awards & Honours, Books etc.

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This book covers the fundamental aspects and the application of electrochemical impedance spectroscopy (EIS), with emphasis on a step-by-step procedure for mechanistic analysis of data. It enables the reader to learn the EIS technique, correctly acquire data from a system of interest, and effectively interpret the same. Detailed illustrations of how to validate the impedance spectra, use equivalent circuit analysis, and identify the reaction mechanism from the impedance spectra are given, supported by derivations and examples. MATLAB® programs for generating EIS data under various conditions are provided along with free online video lectures to enable easier learning. Features: Covers experimental details and nuances, data validation method, and two types of analysis – using circuit analogy and mechanistic analysis Details observations such as inductive loops and negative resistances Includes a dedicated chapter on an emerging technique (Nonlinear EIS), including code in the supplementary material illustrating simulations Discusses diffusion, constant phase element, porous electrodes, and films Contains exercise problems, MATLAB codes, PPT slide, and illustrative examples This book is aimed at senior undergraduates and advanced graduates in chemical engineering, analytical chemistry, electrochemistry, and spectroscopy.

An Introduction to Electrochemical Impedance Spectroscopy

Overview In this course you will learn all you need to know to become a Digital Marketing Expert. As you surely know, Digital Marketing Specialists are in high demand and well paid. Content - Digital Marketing Strategy - Market Research - Crowdsourcing - Web Development and Design - Writing for the Web - Mobile Development - Email Marketing - Online Advertising - Affiliate Marketing - Search Engine Marketing - Search Engine Optimisation - PPC Advertising - And much more Duration 10 months Assessment The assessment will take place on the basis of one assignment at the end of the course. Tell us when you feel ready to take the exam and we'll send you the assignment questions. Study material The study material will be provided in separate files by email / download link.

Digital Marketing Expert Diploma (Master's level) - City of London College of Economics - 10 months - 100% online / self-paced

Innovation, in economic activity, in managerial concepts and in engineering design, results from creative activities, entrepreneurial strategies and the business climate. Innovation leads to technological, organizational and commercial changes, due to the relationships between enterprises, public institutions and civil society organizations. These innovation networks create new knowledge and contribute to the dissemination of new socio-economic and technological models, through new production and marketing methods. Innovation Economics, Engineering and Management Handbook 2 is the second of the two volumes that comprise this book. The main objectives across both volumes are to study the innovation processes in todays information and knowledge society; to analyze how links between research and business have intensified; and to discuss the methods by which innovation emerges and

is managed by firms, not only from a local perspective but also a global one. The studies presented in these two volumes contribute toward an understanding of the systemic nature of innovations and enable reflection on their potential applications, in order to think about the meaning of growth and prosperity

Innovation Economics, Engineering and Management Handbook 2

The laws of thermodynamics—and their implications for architecture—have not been fully integrated into architectural design. Architecture and building science too often remain constrained by linear concepts and methodologies regarding energy that occlude significant quantities and qualities of energy. The Hierarchy of Energy in Architecture addresses this situation by providing a clear overview of what energy is and what architects can do with it. Building on the emergy method pioneered by systems ecologist Howard T. Odum, the authors situate the energy practices of architecture within the hierarchies of energy and the thermodynamics of the large, non-equilibrium, non-linear energy systems that drive buildings, cities, the planet and universe. Part of the PocketArchitecture series, the book is divided into a fundamentals section, which introduces key topics and the emergy methodology, and an applications section, which features case studies applying emergy to various architectural systems. The book provides a concise but rigorous exposure to the system boundaries of the energy systems related to buildings and as such will appeal to professional architects and architecture students.

Aerospace America

Provides the foundations and principles needed for addressing the various challenges of developing smart cities Smart cities are emerging as a priority for research and development across the world. They open up significant opportunities in several areas, such as economic growth, health, wellness, energy efficiency, and transportation, to promote the sustainable development of cities. This book provides the basics of smart cities, and it examines the possible future trends of this technology. Smart Cities: Foundations, Principles, and Applications provides a systems science perspective in presenting the foundations and principles that span multiple disciplines for the development of smart cities. Divided into three parts—foundations, principles, and applications—Smart Cities addresses the various challenges and opportunities of creating smart cities and all that they have to offer. It also covers smart city theory modeling and simulation, and examines case studies of existing smart cities from all around the world. In addition, the book: Addresses how to develop a smart city and how to present the state of the art and practice of them all over the world Focuses on the foundations and principles needed for advancing the science, engineering, and technology of smart cities—including system design, system verification, real-time control and adaptation, Internet of Things, and test beds Covers applications of smart cities as they relate to smart transportation/connected vehicle (CV) and Intelligent Transportation Systems (ITS) for improved mobility, safety, and environmental protection Smart Cities: Foundations, Principles, and Applications is a welcome reference for the many researchers and professionals working on the development of smart cities and smart city-related industries.

Physics for Engineers

This book combines medicinal and engineering knowledge to present engineering modelling applications (mainly computational, but also experimental) in the context of facilitating a patient-centred approach to treating congenital heart disease (CHD). After introducing the basic concepts of engineering tools, it discusses modelling and the applications of engineering techniques (e.g. computational fluid dynamics, fluid-structure interaction, structural simulations, virtual surgery, advanced image analysis, 3D printing) in specific congenital heart diseases. It also offers a number of clinical case studies describing the applications in real-life clinical practice. The final section focuses on the importance of surgical training, counselling and patient communication. Considering the unique anatomical arrangement pre/post repair in CHD, as well as the different surgical strategy and device options (e.g. stents) for interventions, a patient-specific approach is certainly warranted in this area of medicine, and engineering is helping improve our understanding of individual patients and their particular anatomy and physiology. To reinforce the idea of a necessary dialogue between clinicians and engineers, this book has not only been edited by two cardiologists and two bioengineers, but each chapter has been written by a clinician and an engineer, incorporating both voices in the description of state-of-the-art models for different CHDs.

The Hierarchy of Energy in Architecture

This proceedings volume contains selected papers presented at the 2014 AASRI International Conference on Applied Engineering Sciences, held in Hollywood, LA, USA. Contributions cover the latest developments and advances in the field of Applied Engineering Sciences.

Cloud Computing

MATERIALS FOR SOLAR ENERGY CONVERSION This book provides professionals and students with a resource on the basic principles and applications of solar energy materials and processes, as well as practicing engineers who want to understand how functional materials operate in solar energy conversion systems. The demand for energy is increasing daily, and the development of sustainable power generation is a critical issue. In order to overcome the energy demand, power generation through solar energy is booming. Many research works have attempted to enhance the efficiency of collection and storage of solar energy and, as a result, numerous advanced functional materials have been developed for enhancing the performance of solar cells. This book has compiled and broadly explores the latest developments of materials, methods, and applications of solar energy. The book is divided into 2 parts, in which the first part deals with solar cell fundamentals and emerging categories, and the latter part deals with materials, methods, and applications in order to fill the gap between existing technologies and practical requirements. The book presents detailed chapters including organic, inorganic, coating materials, and collectors. The use of modern computer simulation techniques, conversion and storage processes are effectively covered. Topics such as nanostructured solar cells, battery materials, etc. are included in this book as well. Audience The book is aimed at researchers in materials science, chemistry, physics, electrical and mechanical engineering working in the fields of nanotechnology, photovoltaic device technology, and solar energy.

Smart Cities

This book examines the challenge of accelerating automation, and argues that countering and adapting to this challenge requires new methodological, philosophical, scientific, sociological, economic, ethical, and political perspectives that fundamentally rethink the categories of work and education. What is required is political will and social vision to respond to the question: What is the role of education in a digital age characterized by potential mass technological unemployment? Today's technologies are beginning to cost more jobs than they create – and this trend will continue. There have been many proposed solutions to this problem, and they invariably involve an educational vision. Yet, in a world that simply doesn't offer enough work for everyone, education is clearly not a panacea for technological unemployment. This collection presents responses to this question from a wide spectrum of disciplines, including but not limited to education studies, philosophy, history, politics, sociology, psychology, and economics.

Fuel Cell Science, Engineering and Technology--2004

NATURE-INSPIRED ALGORITHMS AND APPLICATIONS The book's unified approach of balancing algorithm introduction, theoretical background and practical implementation, complements extensive literature with well-chosen case studies to illustrate how these algorithms work. Inspired by the world around them, researchers are gathering information that can be developed for use in areas where certain practical applications of nature-inspired computation and machine learning can be applied. This book is designed to enhance the reader's understanding of this process by portraying certain practical applications of nature-inspired algorithms (NIAs) specifically designed to solve complex real-world problems in data analytics and pattern recognition by means of domain-specific solutions. Since various NIAs and their multidisciplinary applications in the mechanical engineering and electrical engineering sectors; and in machine learning, image processing, data mining, and wireless networks are dealt with in detail in this book, it can act as a handy reference guide. Among the subjects of the 12 chapters are: A novel method based on TRIZ to map real-world problems to nature problems Applications of cuckoo search algorithm for optimization problems Performance analysis of nature-inspired algorithms in breast cancer diagnosis Nature-inspired computation in data mining Hybrid bat-genetic algorithm–based novel optimal wavelet filter for compression of image data Efficiency of finding best solutions through ant colony optimization techniques Applications of hybridized algorithms and novel algorithms in the field of machine learning. Audience: Researchers and graduate students in mechanical engineering, electrical engineering, machine learning, image processing, data mining, and wireless networks will find this book very useful.

Modelling Congenital Heart Disease

Control systems play an important role in engineering. Fuzzy logic is the natural choice for designing control applications and is the most popular and appropriate for the control of home and industrial appliances. Academic and industrial experts are constantly researching and proposing innovative and effective fuzzy control systems. This book is an edited volume and has 21 innovative chapters arranged into five sections covering applications of fuzzy control systems in energy and power systems, navigation systems, imaging, and industrial engineering. Overall, this book provides a rich set of modern fuzzy control systems and their applications and will be a useful resource for the graduate students, researchers, and practicing engineers in the field of electrical engineering.

Applied Engineering Sciences

First published in 1995, the award-winning Civil Engineering Handbook soon became known as the field's definitive reference. To retain its standing as a complete, authoritative resource, the editors have incorporated into this edition the many changes in techniques, tools, and materials that over the last seven years have found their way into civil

Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society

In a unique and systematic way, this book discusses the security and privacy aspects of the cloud, and the relevant cloud forensics. Cloud computing is an emerging yet revolutionary technology that has been changing the way people live and work. However, with the continuous growth of cloud computing and related services, security and privacy has become a critical issue. Written by some of the top experts in the field, this book specifically discusses security and privacy of the cloud, as well as the digital forensics of cloud data, applications, and services. The first half of the book enables readers to have a comprehensive understanding and background of cloud security, which will help them through the digital investigation guidance and recommendations found in the second half of the book. Part One of Security, Privacy and Digital Forensics in the Cloud covers cloud infrastructure security; confidentiality of data; access control in cloud IaaS; cloud security and privacy management; hacking and countermeasures; risk management and disaster recovery; auditing and compliance; and security as a service (SaaS). Part Two addresses cloud forensics – model, challenges, and approaches; cyberterrorism in the cloud; digital forensic process and model in the cloud; data acquisition; digital evidence management, presentation, and court preparation; analysis of digital evidence; and forensics as a service (FaaS). Thoroughly covers both security and privacy of cloud and digital forensics Contributions by top researchers from the U.S., the European and other countries, and professionals active in the field of information and network security, digital and computer forensics, and cloud and big data Of interest to those focused upon security and implementation, and incident management Logical, well-structured, and organized to facilitate comprehension Security, Privacy and Digital Forensics in the Cloud is an ideal book for advanced undergraduate and master's-level students in information systems, information technology, computer and network forensics, as well as computer science. It can also serve as a good reference book for security professionals, digital forensics practitioners and cloud service providers.

Materials for Solar Energy Conversion

Selling over 220,000 copies in its first edition, Schaum's Outline of Probability and Statistics has become a vital resource for the more than 977,000 college students who enroll in related probability and statistics courses each year. Its big-picture, calculus-based approach makes it an especially authoriatative reference for engineering and science majors. Now thoroughly update, this second edition includes vital new coverage of order statistics, best critical regions, likelihood ratio tests, and other key topics.

Education and Technological Unemployment

The book features original papers from the 2nd International Conference on Smart IoT Systems: Innovations and Computing (SSIC 2019), presenting scientific work related to smart solution concepts. It discusses computational collective intelligence, which includes interactions between smart devices, smart environments and smart interactions, as well as information technology support for such areas. It also describes how to successfully approach various government organizations for funding for business

and the humanitarian technology development projects. Thanks to the high-quality content and the broad range of the topics covered, the book appeals to researchers pursuing advanced studies.

Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society

Natural and Synthetic Fiber Reinforced Composites Discover a comprehensive exploration of fiber reinforced polymers by an expert team of editors Fiber reinforced polymer (FRP) composites offer several unique properties that make them ideal for use in a wide range of industries, from automotive and aerospace to marine, construction, and co-industrial. In Natural and Synthetic Fiber Reinforced Composites: Synthesis, Properties and Applications, a distinguished team of mechanical engineers delivers a comprehensive overview of fiber reinforced composites. This edited volume includes thorough discussions of glass-, cotton-, and carbon-fiber reinforced materials, as well as the tribological properties and non-structural applications of synthetic fiber composites. Readers will also find practical explorations of the structural evolution, mechanical features, and future possibilities of fiber, textile, and nano-cementitious materials. The physical and chemical properties of cotton fiber-based composites are explored at length, as are the extraordinary mechanical, thermal, electrical, electronic, and field emission properties of carbon nanotubes. This singular book also includes: A thorough discussion of recent advancements in natural fiber reinforced polymer composites, their implications, and the opportunities that arise as a result A comprehensive exploration of the thermal behavior of natural fiber-based composites An insightful review of the literature on sisal fiber with polymer matrices A response to the growing research gap in the existing literature regarding natural fiber-based polymer composites and solutions to address it Perfect for scientists, engineers, professors, and students working in areas involving natural and synthetic reinforced polymers and composites, Natural and Synthetic Fiber Reinforced Composites: Synthesis, Properties and Applications offers a one-of-a-kind resource to help readers understand a critical and rapidly evolving technology.

Nature-Inspired Algorithms and Applications

INTEGRATION OF RENEWABLE ENERGY SOURCES WITH SMART GRID Provides comprehensive coverage of renewable energy and its integration with smart grid technologies. This book starts with an overview of renewable energy technologies, smart grid technologies, and energy storage systems and covers the details of renewable energy integration with smart grid and the corresponding controls. It also provides an enhanced perspective on the power scenario in developing countries. The requirement of the integration of smart grid along with the energy storage systems is deeply discussed to acknowledge the importance of sustainable development of a smart city. The methodologies are made quite possible with highly efficient power convertor topologies and intelligent control schemes. These control schemes are capable of providing better control with the help of machine intelligence techniques and artificial intelligence. The book also addresses modern power convertor topologies and the corresponding control schemes for renewable energy integration with smart grid. The design and analysis of power converters that are used for the grid integration of solar PV along with simulation and experimental results are illustrated. The protection aspects of the microgrid with power electronic configurations for wind energy systems are elucidated. The book also discusses the challenges and mitigation measure in renewable energy integration with smart grid. Audience The core audience is hardware and software engineers working on renewable energy integration related projects, microgrids, smart grids and computing algorithms for converter and inverter circuits. Researchers and students in electrical, electronics and computer engineering will also benefit reading the book.

Modern Fuzzy Control Systems and Its Applications

This book offers a comprehensive review of the latest advances in developing functional electrospun nanofibers for energy and environmental applications, which include fuel cells, lithium-ion batteries, solar cells, supercapacitors, energy storage materials, sensors, filtration materials, protective clothing, catalysis, structurally-colored fibers, oil spill cleanup, self-cleaning materials, adsorbents, and electromagnetic shielding. This book is aimed at both newcomers and experienced researchers in the field of nanomaterials, especially those who are interested in addressing energy-related and environmental problems with the help of electrospun nanofibers. Bin Ding, PhD, and Jianyong Yu, PhD, are both Professors at the College of Materials Science and Engineering, Donghua University, China.

The Civil Engineering Handbook

Publisher Description

Security, Privacy, and Digital Forensics in the Cloud

In the United States there are several thousand devices containing high-activity radiation sources licensed for use in areas ranging from medical uses such as cancer therapy to safety uses such as testing of structures and industrial equipment. Those radiation sources are licensed by the U.S. Nuclear Regulatory Commission and state agencies. Concerns have been raised about the safety and security of the radiation sources, particularly amid fears that they could be used to create dirty bombs, or radiological dispersal device (RDD). In response to a request from Congress, the U.S. Nuclear Regulatory Commission asked the National Research Council to conduct a study to review the uses of high-risk radiation sources and the feasibility of replacing them with lower risk alternatives. The study concludes that the U.S. government should consider factors such as potential economic consequences of misuse of the radiation sources into its assessments of risk. Although the committee found that replacements of most sources are possible, it is not economically feasible in some cases. The committee recommends that the U.S. government take steps to in the near term to replace radioactive cesium chloride radiation sources, a potential "dirty bomb" ingredient used in some medical and research equipment, with lower-risk alternatives. The committee further recommends that longer term efforts be undertaken to replace other sources. The book presents a number of options for making those replacements.

Schaum's Outline of Probability and Statistics

Graph Embedding for Pattern Recognition covers theory methods, computation, and applications widely used in statistics, machine learning, image processing, and computer vision. This book presents the latest advances in graph embedding theories, such as nonlinear manifold graph, linearization method, graph based subspace analysis, L1 graph, hypergraph, undirected graph, and graph in vector spaces. Real-world applications of these theories are spanned broadly in dimensionality reduction, subspace learning, manifold learning, clustering, classification, and feature selection. A selective group of experts contribute to different chapters of this book which provides a comprehensive perspective of this field.

Smart Systems and IoT: Innovations in Computing

The automotive industry is one of the largest and most important industries in the world. Cars, buses, and other engine-based vehicles abound in every country on the planet, and it is continually evolving, with electric cars, hybrids, self-driving vehicles, and so on. Technologies that were once thought to be decades away are now on our roads right now. Engineers, technicians, and managers are constantly needed in the industry, and, often, they come from other areas of engineering, such as electrical engineering, process engineering, or chemical engineering. Introductory books like this one are very useful for engineers who are new to the industry and need a tutorial. Also valuable as a textbook for students, this introductory volume not only covers the basics of automotive engineering, but also the latest trends, such as self-driving vehicles, hybrids, and electric cars. Not only useful as an introduction to the science or a textbook, it can also serve as a valuable reference for technicians and engineers alike. The volume also goes into other subjects, such as maintenance and performance. Data has always been used in every company irrespective of its domain to improve the operational efficiency and performance of engines. This work deals with details of various automotive systems with focus on designing various components of these system to suit the working conditions on roads. Whether a textbook for the student, an introduction to the industry for the newly hired engineer, or a reference for the technician or veteran engineer, this volume is the perfect introduction to the science of automotive engineering.

Natural and Synthetic Fiber Reinforced Composites

Machine learning deals with the issue of how to build computer programs that improve their performance at some tasks through experience. Machine learning algorithms have proven to be of great practical value in a variety of application domains. Not surprisingly, the field of software engineering turns out to be a fertile ground where many software development and maintenance tasks could be formulated as learning problems and approached in terms of learning algorithms. This book deals with the subject of machine learning applications in software engineering. It provides an overview of machine learning, summarizes the state-of-the-practice in this niche area, gives a classification of the existing

work, and offers some application guidelines. Also included in the book is a collection of previously published papers in this research area.

Integration of Renewable Energy Sources with Smart Grid

This book takes a modern, all-inclusive look at manufacturing processes. Its coverage is strategically divided—65% concerned with manufacturing process technologies, 35% dealing with engineering materials and production systems.

Electrospun Nanofibers for Energy and Environmental Applications

Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. Strengthening Forensic Science in the United States: A Path Forward provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. Strengthening Forensic Science in the United States gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.

SPE Drilling & Completion

Developing a knowledge model helps to formalize the difficult task of analyzing crime incidents in addition to preserving and presenting the digital evidence for legal processing. The use of data analytics techniques to collect evidence assists forensic investigators in following the standard set of forensic procedures, techniques, and methods used for evidence collection and extraction. Varieties of data sources and information can be uniquely identified, physically isolated from the crime scene, protected, stored, and transmitted for investigation using AI techniques. With such large volumes of forensic data being processed, different deep learning techniques may be employed. Confluence of AI, Machine, and Deep Learning in Cyber Forensics contains cutting-edge research on the latest AI techniques being used to design and build solutions that address prevailing issues in cyber forensics and that will support efficient and effective investigations. This book seeks to understand the value of the deep learning algorithm to handle evidence data as well as the usage of neural networks to analyze investigation data. Other themes that are explored include machine learning algorithms that allow machines to interact with the evidence, deep learning algorithms that can handle evidence acquisition and preservation, and techniques in both fields that allow for the analysis of huge amounts of data collected during a forensic investigation. This book is ideally intended for forensics experts, forensic investigators, cyber forensic practitioners, researchers, academicians, and students interested in cyber forensics, computer science and engineering, information technology, and electronics and communication.

Engineering Economy

Metal Oxide Nanocomposites: Synthesis and Applications summarizes many of the recent research accomplishments in the area of metal oxide-based nanocomposites. This book focussing on the following topics: Nanocomposites preparation and characterization of metal oxide nanocomposites; synthesis of core/shell metal oxide nanocomposites; multilayer thin films; sequential assembly of nanocomposite materials; semiconducting polymer metal oxide nanocomposites; graphene-based metal and metal oxide nanocomposites; carbon nanotube–metal–oxide nanocomposites; silicon mixed oxide nanocomposites; gas semiconducting sensors based on metal oxide nanocomposites; metal]organic framework nanocomposite for hydrogen production and nanocomposites application towards photovoltaic and photocatalytic.

Radiation Source Use and Replacement

A guide to using the power of design flexibility to improve the performance of complex technological projects, for designers, managers, users, and analysts. Project teams can improve results by recognizing that the future is inevitably uncertain and that by creating flexible designs they can adapt to eventualities. This approach enables them to take advantage of new opportunities and avoid harmful losses. Designers of complex, long-lasting projects—such as communication networks, power plants, or hospitals—must learn to abandon fixed specifications and narrow forecasts. They need to avoid the "flaw of averages," the conceptual pitfall that traps so many designs in underperformance. Failure to allow for changing circumstances risks leaving significant value untapped. This book is a guide for creating and implementing value-enhancing flexibility in design. It will be an essential resource for all participants in the development and operation of technological systems: designers, managers, financial analysts, investors, regulators, and academics. The book provides a high-level overview of why flexibility in design is needed to deliver significantly increased value. It describes in detail methods to identify, select, and implement useful flexibility. The book is unique in that it explicitly recognizes that future outcomes are uncertain. It thus presents forecasting, analysis, and evaluation tools especially suited to this reality. Appendixes provide expanded explanations of concepts and analytic tools.

Graph Embedding for Pattern Analysis

Introduction to Automotive Engineering

Basic Civil Engineering

Basic Civil Engineering is designed to enrich the preliminary conceptual knowledge about civil engineering to the students of non-civil branches of engineering. The coverage includes materials for construction, building construction, basic surveying and other major topics like environmental engineering, geo-technical engineering, transport traffic and urban engineering, irrigation & water supply engineering and CAD.

Basic Civil Engineering

First published in 1995, the award-winning Civil Engineering Handbook soon became known as the field's definitive reference. To retain its standing as a complete, authoritative resource, the editors have incorporated into this edition the many changes in techniques, tools, and materials that over the last seven years have found their way into civil

The Civil Engineering Handbook

This publication establishes a basic understanding of materials used in civil engineering construction as taught in tertiary institutions across South Africa. It uses the objectives of the NQF in promoting independent learning and is the only book pertaining to Civil Engineering that covers all the necessary topics under one roof.

Construction Materials for Civil Engineering

Manage everyday calculations instantly and accurately-saving you time in the design, construction, and maintenance of all types of structures Covering all aspects of civil engineering calculations in an easy-to-understand format, the new edition of the Handbook of Civil Engineering Calculations is now revised and updated with over 500 key calculations that show you exactly how to compute the desired values for a particular design-going quickly from data to finished result. Using both customary and SI units, this comprehensive engineer's must-have resource is exactly what you need to solve the civil engineering problems that come your way. From structural steel to reinforced concrete, from bridges and dams to highways and roads, Handbook of Civil Engineering Calculations, 2e, lets you handle all of these design calculations quickly-and more importantly, correctly. NEW TO THIS EDITION: Updated calculation procedures using the latest applicable design codes for everything-from structural steel to reinforced concrete, from water supply to highways, freeways, roads, and more A wealth of new illustrated calculation procedures to provide better guidance for the design engineer New civil-engineering data on "green" buildings and their design, better qualifying them for LEED (Leadership in Energy and Environmental Design) ratings Inside This Cutting-Edge Engineering Calculations Guide-Structural Steel Engineering and Design • Reinforced and Prestressed Concrete Engineering and

Design • Timber Engineering • Soil Mechanics • Surveying, Route Design, and Highway Bridges • Fluid Mechanic, Pumps, Piping, and Hydro Power • Water Supply

Basic Civil Engineering

It's a Excel basics book that every civil engineer should have read by now. It addresses skills that may not be covered in most Excel for civil engineering texts, such as step by step guides to create an application program and how to convert the steps into VBA code, how to perform matrix operations (multiplication and inversion) using Excel-VBA, macro for creating an engineering chart, a brief and simple guide to become an instant Excel-VBA programmer, and more... Also to be presented the depiction in AutoCAD program. Yes! AutoCAD is chosen because one of its advantages that relies on high drawing accuracy. You will learn how to create a simple AutoCAD script file using Excel formulas and Excel-VBA. It is expected that you will be able to create simple Cartesian graph in AutoCAD, even you are an AutoCAD first time user! With the ease of working with Excel, coupled with benefit of the given examples in this book, it is expected to increase the interest of the reader to create new original application programs. Thus, each model or even a specific calculation will be an exciting challenge for a programming job is already enjoyable. Happy Excel programming!

Handbook of Civil Engineering Calculations, Second Edition

This expansive volume presents the essential topics related to construction materials composition and their practical application in structures and civil installations. The book's diverse slate of expert authors assemble invaluable case examples and performance data on the most important groups of materials used in construction, highlighting aspects such as nomenclature, the properties, the manufacturing processes, the selection criteria, the products/applications, the life cycle and recyclability, and the normalization. Civil Engineering Materials: Science, Processing, and Design is ideal for practicing architects; civil, construction, and structural engineers, and serves as a comprehensive reference for students of these disciplines. This book also: · Provides a substantial and detailed overview of traditional materials used in structures and civil infrastructure · Discusses properties of natural and synthetic materials in construction and materials' manufacturing processes · Addresses topics important to professionals working with structural materials, such as corrosion, nanomaterials, materials life cycle, not often covered outside of journal literature · Diverse author team presents expect perspective from civil engineering, construction, and architecture · Features a detailed glossary of terms and over 400 illustrations

An Introduction to Excel for Civil Engineers

Provides updated, comprehensive, and practical information and guidelines on aspects of building design and construction, including materials, methods, structural types, components, and costs, and management techniques.

Materials for Construction and Civil Engineering

„Mechanics, Models and Methods in Civil Engineering" collects leading papers dealing with actual Civil Engineering problems. The approach is in the line of the Italian-French school and therefore deeply couples mechanics and mathematics creating new predictive theories, enhancing clarity in understanding, and improving effectiveness in applications. The authors of the contributions collected here belong to the Lagrange Laboratory, an European Research Network active since many years. This book will be of a major interest for the reader aware of modern Civil Engineering.

Building Design and Construction Handbook

After an examination of fundamental theories as applied to civil engineering, authoritative coverage is included on design practice for certain materials and specific structures and applications. A particular feature is the incorporation of chapters on construction and site practice, including contract management and control.

Mechanics, Models and Methods in Civil Engineering

This report outlines 21 foundational, technical, and professional practice learning outcomes for individuals entering the professional practice of civil engineering.

Civil Engineer's Reference Book

This text primarily analyses different methods of design of concrete structures as per IS 456: 2000 (Plain and Reinforced Concrete—Indian Standard Code of Practice, 4th revision, Bureau of Indian Standards). It gives greater emphasis on the limit state method so as to illustrate the acceptable limits for the safety and serviceability requirements of structures. Besides dealing with yield line analysis for slabs, the book explains the working stress method and its use for designing reinforced concrete tension members, theory of redistribution of moments, and earthquake resistant design of structures. This well-structured book develops an effective understanding of the theory through numerous solved problems, presenting step-by-step calculations. The use of SP-16 (Design Aids for Reinforced Concrete to IS: 456–1978) has also been explained in solving the problems. KEY FEATURES : Instructional Objectives at the beginning of the chapter highlight important concepts. Summary at the end of the chapter to help student revise key points. Sixty-nine solved illustrative examples presenting step-by-step calculations. Chapter-end exercises to test student's understanding of the concepts. Forty Tests to enable students to gauge their preparedness for actual exams. This comprehensive text is suitable for undergraduate students of civil engineering and architecture. It can also be useful to professional engineers.

Basic Civil Engineering

The book provides primary information about civil engineering to both a civil and non-civil engineering audience in areas such as construction management, estate management, and building. Basic civil engineering topics like surveying, building materials, construction technology and management, concrete technology, steel structures, soil mechanics and foundations, water resources, transportation and environment engineering are explained in detail. Codal provisions of US, UK and India are included to cater to a global audience. Insights into techniques like modern surveying equipment and technologies, sustainable construction materials, and modern construction materials are also included. Key features: • Provides a concise presentation of theory and practice for all technical in civil engineering. • Contains detailed theory with lucid illustrations. • Focuses on the management aspects of a civil engineer's job. • Addresses contemporary issues such as permitting, globalization, sustainability, and emerging technologies. • Includes codal provisions of US, UK and India. The book is aimed at professionals and senior undergraduate students in civil engineering, non-specialist civil engineering audience

Basic civil and mechanical engineering

This updated textbook provides a balanced, seamless treatment of both classic, analytic methods and contemporary, computer-based techniques for conceptualizing and designing a structure. New to the second edition are treatments of geometrically nonlinear analysis and limit analysis based on nonlinear inelastic analysis. Illustrative examples of nonlinear behavior generated with advanced software are included. The book fosters an intuitive understanding of structural behavior based on problem solving experience for students of civil engineering and architecture who have been exposed to the basic concepts of engineering mechanics and mechanics of materials. Distinct from other undergraduate textbooks, the authors of Fundamentals of Structural Engineering, 2/e embrace the notion that engineers reason about behavior using simple models and intuition they acquire through problem solving. The perspective adopted in this text therefore develops this type of intuition by presenting extensive, realistic problems and case studies together with computer simulation, allowing for rapid exploration of how a structure responds to changes in geometry and physical parameters. The integrated approach employed in Fundamentals of Structural Engineering, 2/e make it an ideal instructional resource for students and a comprehensive, authoritative reference for practitioners of civil and structural engineering.

Civil Engineering Body of Knowledge

Civil Engineering Materials explains why construction materials behave the way they do. It covers the construction materials content for undergraduate courses in civil engineering and related subjects and serves as a valuable reference for professionals working in the construction industry. The book concentrates on demonstrating methods to obtain, analyse and use information rather than focusing on presenting large amounts of data. Beginning with basic properties of materials, it moves on to more complex areas such as the theory of concrete durability and corrosion of steel. Discusses the broad scope of traditional, emerging, and non-structural materials Explains what material properties such as specific heat, thermal conductivity and electrical resistivity are and how they can be used to calculate the performance of construction materials. Contains numerous worked examples with

detailed solutions that provide precise references to the relevant equations in the text. Includes a detailed section on how to write reports as well as a full section on how to use and interpret publications, giving students and early career professionals valuable practical guidance.

DESIGN OF CONCRETE STRUCTURES

Practical Civil Engineering

This book covers all aspects of operational modal analysis for civil engineering, from theoretical background to applications, including measurement hardware, software development, and data processing. In particular, this book provides an extensive description and discussion of OMA methods, their classification and relationship, and advantages and drawbacks. The authors cover both the well-established theoretical background of OMA methods and the most recent developments in the field, providing detailed examples to help the reader better understand the concepts and potentialities of the technique. Additional material is provided (data, software) to help practitioners and students become familiar with OMA. Covering a range of different aspects of OMA, always with the application in mind, the practical perspective adopted in this book makes it ideal for a wide range of readers from researchers to field engineers; graduate and undergraduate students; and technicians interested in structural dynamics, system identification, and Structural Health Monitoring. This book also: Analyzes OMA methods extensively, providing details on implementation not easily found in the literature Offers tutorial for development of customized measurement and data processing systems for LabView and National Instruments programmable hardware Discusses different solutions for automated OMA Contains many explanatory applications on real structures Provides detail on applications of OMA beyond system identification, such as (vibration based monitoring, tensile load estimation, etc.) Includes both theory and applications

Fundamentals of Structural Engineering

A well-written, hands-on, single-source guide to the professional practice of civil engineering There is a growing understanding that to be competitive at an international level, civil engineers not only must build on their traditional strengths in technology and science but also must acquire greater mastery of the business of civil engineering. Project management, teamwork, ethics, leadership, and communication have been defined as essential to the successful practice of civil engineering by the ASCE in the 2008 landmark publication, Civil Engineering Body of Knowledge for the 21st Century (BOK2). This single-source guide is the first to take the practical skills defined by the ASCE BOK2 and provide illuminating techniques, quotes, case examples, problems, and information to assist the reader in addressing the many challenges facing civil engineers in the real world. Civil Engineer's Handbook of Professional Practice: Focuses on the business and management aspects of a civil engineer's job, providing students and practitioners with sound business management principles Addresses contemporary issues such as permitting, globalization, sustainability, and emerging technologies Offers proven methods for balancing speed, quality, and price with contracting and legal issues in a client-oriented profession Includes guidance on juggling career goals, life outside work, compensation, and growth From the challenge of sustainability to the rigors of problem recognition and solving, this book is an essential tool for those practicing civil engineering.

Basic Civil Engineering

Structural Analysis: In Theory and Practice provides a comprehensive review of the classical methods of structural analysis and also the recent advances in computer applications. The prefect guide for the Professional Engineer's exam, Williams covers principles of structural analysis to advanced concepts. Methods of analysis are presented in a concise and direct manner and the different methods of

approach to a problem are illustrated by specific examples. In addition, the book include the clear and concise approach to the subject and the focus on the most direct solution to a problem. Numerous worked examples are provided to consolidate the readers? understanding of the topics. Structural Analysis: In Theory and Practice is perfect for anyone who wishes to have handy reference filled with equations, calculations and modeling instructions as well as candidates studying for professional engineering registration examinations. It will also serve as a refresher course and reference manual for practicing engineers. Registered professional engineers and registered structural Numerous worked examples are provided to consolidate the readers understanding of the topics Comprehensive coverage of the whole field of structural analysis Supplementary problems are given at the end of each chapter with answers provided at the end of the book Realistic situations encountered in practice and test the reader's ability to apply the concepts presented in the chapter Classical methods of structural analysis and also the recent advances in computer applications

Civil Engineering Materials

Instant Access to Civil Engineering Formulas Fully updated and packed with more than 500 new formulas, this book offers a single compilation of all essential civil engineering formulas and equations in one easy-to-use reference. Practical, accurate data is presented in USCS and SI units for maximum convenience. Follow the calculation procedures inside Civil Engineering Formulas, Second Edition, and get precise results with minimum time and effort. Each chapter is a quick reference to a well-defined topic, including: Beams and girders Columns Piles and piling Concrete structures Timber engineering Surveying Soils and earthwork Building structures Bridges and suspension cables Highways and roads Hydraulics, drams, and waterworks Power-generation wind turbines Stormwater Wastewater treatment Reinforced concrete Green buildings Environmental protection

The Civil Engineer's Pocket-Book

The Structural Engineer's Pocket Book British Standards Edition is the only compilation of all tables, data, facts and formulae needed for scheme design to British Standards by structural engineers in a handy-sized format. Bringing together data from many sources into a compact, affordable pocketbook, it saves valuable time spent tracking down information needed regularly. This second edition is a companion to the more recent Eurocode third edition. Although small in size, this book contains the facts and figures needed for preliminary design whether in the office or on-site. Based on UK conventions, it is split into 14 sections including geotechnics, structural steel, reinforced concrete, masonry and timber, and includes a section on sustainability covering general concepts, materials, actions and targets for structural engineers.

Operational Modal Analysis of Civil Engineering Structures

This revised and significantly expanded edition contains a rigorous examination of key concepts, new chapters and discussions within existing chapters, and added reference materials in the appendix, while retaining its classroom-tested approach to helping readers navigate through the deep ideas, vast collection of the fundamental methods of structural analysis. The authors show how to undertake the numerous analytical methods used in structural analysis by focusing on the principal concepts, detailed procedures and results, as well as taking into account the advantages and disadvantages of each method and sphere of their effective application. The end result is a guide to mastering the many intricacies of the range of methods of structural analysis. The book differentiates itself by focusing on extended analysis of beams, plane and spatial trusses, frames, arches, cables and combined structures; extensive application of influence lines for analysis of structures; simple and effective procedures for computation of deflections; introduction to plastic analysis, stability, and free and forced vibration analysis, as well as some special topics. Ten years ago, Professor Igor A. Karnovsky and Olga Lebed crafted a must-read book. Now fully updated, expanded, and titled Advanced Methods of Structural Analysis (Strength, Stability, Vibration), the book is ideal for instructors, civil and structural engineers, as well as researches and graduate and post graduate students with an interest in perfecting structural analysis.

Civil Engineer's Handbook of Professional Practice

Basic Structures provides the student with a clear explanation of structural concepts, using many analogies and examples. Real examples and case studies show the concepts in use, and the book is well illustrated with full colour photographs and many line illustrations, giving the student a thorough

grounding in the fundamentals and a 'feel' for the way buildings behave structurally. With many worked examples and tutorial questions, the book serves as an ideal introduction to the subject.

Structural Analysis

'Unposted Letters' by Mahtria Ra is one of those books that aims to transcend all religions and castes, and touch the core of the readers in a profound way irrespective of their social position, status and the likes. 'Unposted Letters' is a spiritual and inspirational book that urges the readers to find happiness in every small things and feel the presence of God Almighty everywhere. By illustrating the simple with the powerful, this is a book that deals with knowledge and enlightenment and talks about Life as it is, about how it should be led that is bereft of any jealousy and wrath. Published by Manjul Publishing House, this book is available in hardcover.

Civil Engineering Formulas

The second edition (1997) of this text was a completely rewritten version of the original text Basic Coastal Engineering published in 1978. This third edition makes several corrections, improvements and additions to the second edition. Basic Coastal Engineering is an introductory text on wave mechanics and coastal processes along with fundamentals that underline the practice of coastal engineering. This book was written for a senior or first postgraduate course in coastal engineering. It is also suitable for self study by anyone having a basic engineering or physical science background. The level of coverage does not require a math or fluid mechanics background beyond that presented in a typical undergraduate civil or mechanical engineering curriculum. The material p- sented in this text is based on the author's lecture notes from a one-semester course at Virginia Polytechnic Institute, Texas A&M University, and George Washington University, and a senior elective course at Lehigh University. The text contains examples to demonstrate the various analysis techniques that are presented and each chapter (except the first and last) has a collection of problems for the reader to solve that further demonstrate and expand upon the text material. Chapter 1 briefly describes the coastal environment and introduces the re- tively new field of coastal engineering. Chapter 2 describes the two-dimensional characteristics of surface waves and presents the small-amplitude wave theory to support this description.

Structural Engineer's Pocket Book British Standards Edition

Highly regarded for its clarity and depth of coverage, the bestselling Principles of Highway Engineering and Traffic Analysis provides a comprehensive introduction to the highway-related problems civil engineers encounter every day. Emphasizing practical applications and up-to-date methods, this book prepares students for real-world practice while building the essential knowledge base required of a transportation professional. In-depth coverage of highway engineering and traffic analysis, road vehicle performance, traffic flow and highway capacity, pavement design, travel demand, traffic forecasting, and other essential topics equips students with the understanding they need to analyze and solve the problems facing America's highway system. This new Seventh Edition features a new e-book format that allows for enhanced pedagogy, with instant access to solutions for selected problems. Coverage focuses exclusively on highway transportation to reflect the dominance of U.S. highway travel and the resulting employment opportunities, while the depth and scope of coverage is designed to prepare students for success on standardized civil engineering exams.

A Manual of Civil Engineering

An authoritative guide to generating readable, compact, and verifiably correct MATLAB programs. This highly respected work helps students develop a strong working knowledge of MATLAB that can be used to solve a wide range of engineering problems.

Advanced Methods of Structural Analysis

Materials prices are still rising for most products, subcontract prices are volatile, tender prices falling... What's happening in detail and where are things heading in this demanding market? Spon's Civil Engineering and Highway Works Price Book 2010 is more than just a price book. It provides a comprehensive work manual that many in the civil engineering, surveying and construction business will find it hard to work without. It gives costs for both general and civil engineering works and highway works, and shows a full breakdown of labour, plant and material elements, with labour rates updated in line with the latest CIJC wage agreement. This 24th edition, in its easy to read format,

incorporates a comprehensive review throughout Assumptions on overheads and profits have been revised downwards Preliminaries have been cut, on a lower cost base Labour rates have been adjusted to reflect today's economic climate Tunnelling rates are too volatile this year and have been removed from this edition Structured to comply with CESMM3 and MMHW, the book includes prices and rates covering everything from ladders to lighting systems and canal dredging to cycle stands. In a time when it is essential to gain 'competitive advantage' in an increasingly congested market, this price book provides instant-access cost information and is a one-stop reference containing tables, formulae, technical information and professional advice. Buyers of this 2010 edition can make a free internet download of Spon's Civil Engineering and Highway Works price data, which will run to the end of 2010 and: produce estimate and tender documents generate priced or unpriced schedules adjust rates and data and enter rogue items export schedules into Excel carry out an index search This year, for the first time, the download includes a versatile and powerful ebook. Plus the standard features you have come to expect from Spon's Civil Engineering and Highway Works Price Book: For budgeting: estimating principles, on-cost advice, method-related charges For resource costings: labour costs, plant costs, material prices For rapid cost information: approximate estimates, dayworks, cost indices For plant and labour allowances: production rates, outputs, man hour constants For detailed pricing: unit costs with full breakdown, or specialist prices, with advice on item coverage, waste allowances and comparative costs For incidental advice: tables and formulae, technical information, professional advice Updated, free of charge, every four months – see enclosed card to register. Updates are available online at www.pricebooks.co.uk

Essentials of Bridge Engineering

For students of civil engineering, the basic course on Strength of Materials is not enough to start their engineering career. They need an advanced course like Mechanics of Structures to understand strength and stability of several components of civil engineering structures. Hence, Mechanics of Structure is taught to all polytechnic students of civil engineering. It is written in SI units. Notations used are as per Indian standard codes. Apart from West Bengal Polytechnic students of civil engineering branch, it is hoped that the students of other states with similar syllabus may also find this book useful. KEY FEATURES • 100 per cent coverage of new syllabus • Emphasis on practice of numericals for guaranteed success in exams • Lucidity and simplicity maintained throughout • Nationally acclaimed author of over 40 books

Elements of Civil Engineering and Engineering Mechanics

This book is meant for the first course on Surveying and Levelling of most of the universities. It covers all basic methods of surveying and levelling, applications of surveying and levelling, calculation of areas and volumes of earth work involved in the field work. Minor instruments used in the field are also explained. The author has taken care to use simple and lucid language and to explain the subject with neat sketches. A number of problems are solved to make the subject clear. Diploma and degree students of Civil Engineering, Architecture and Mining will find this book useful

Basic Structures

Ying-Kit Choi details the guidelines, principles, and philosophy needed to produce design documents for heavy civil engineering projects.

Unposted Letter (English)

This book, in its third edition, continues to focus on the basics of civil engineering and engineering mechanics to provide students with a balanced and cohesive study of the two areas (as needed by them in the beginning of their engineering education). A basic undergraduate textbook for the first-year students of all branches of engineering, this book is specifically designed to conform to the syllabus of Visvesvaraya Technological University (VTU). Imparting the basic knowledge in various facets of civil engineering and the related engineering structures and infrastructure such as buildings, roads, highways, dams and bridges, the third edition covers the engineering mechanics portion in eleven chapters. Each chapter introduces the concepts to the reader, stepwise. Providing a wealth of practice examples, the book emphasizes the importance of building strong analytical skills. Practice problems, at the end of each chapter, give students an opportunity to absorb concepts and hone their problem-solving skills. The book comes with a companion CD containing the software developed using MS-Excel, to work out the problems on Forces, Centroid, Friction and Moment of Inertia. The use of

this software will enable the students to understand the concepts in a relatively better way. NEW TO THIS EDITION • Introduces a chapter on Kinematics as per the revised Civil Engineering syllabus of VTU • Updates with the latest examination Question Papers, including the one held in the month of December 2013

Basic Coastal Engineering

Basics of Civil Engineering is considered is considered as one of the basic subjects for all the engineering students of all branches. The contents of this book are framed in such a way that will be useful to the technocrats who are working on the administrative positions to deal with the basic knowledge of civil engineering.

Principles of Highway Engineering and Traffic Analysis

An Engineer's Guide to MATLAB

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Book 2
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