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MECHATRONICS: INTEGRATED MECHANICAL ELECTRONIC SYSTEMS (With CD) [Handbook of Industrial and Systems Engineering Emerging Trends in Mechanical Engineering](#) Engineering Metrology and Measurements A Text Book of Automobile Engineering Sustainable Gold Mining Wastewater Treatment by Sorption Using Low-Cost Materials Site Reliability Engineering Fundamentals of Laser Powder Bed Fusion of Metals Brewing Microbiology Globalized Solutions for Sustainability in Manufacturing [Developing and Monitoring Smart Environments for Intelligent Cities](#) A Practical Guide for System Verilog Assertions [Foundations of Data Science](#) Materials Science and Engineering: Concepts, Methodologies, Tools, and Applications Green Chemistry for Dyes Removal from Waste Water Re-engineering Manufacturing for Sustainability Advances in Oil-Water Separation Wastewater Treatment Environmental Sustainability Using Green Technologies Composite Materials for Extreme Loading [Automobile Engineering](#) Practical Electrical Equipment and Installations in Hazardous Areas [Encyclopedia of Marine Biotechnology](#) INDUSTRIAL ENGINEERING AND MANAGEMENT Microbes for Sustainable Development and Bioremediation Microbial Remediation of Azo Dyes with Prokaryotes MECHATRONICS & MICROPROCESSORS: AS PER REVISED VTU SYLLABUS Precision Manufacturing Fracture Mechanics Connectivity Frameworks for Smart Devices Machining Technology for Composite Materials Practical Hydraulic Systems: Operation and Troubleshooting for Engineers and Technicians Kinematics of Machinery Springer Handbook of Nanotechnology Power Plant Engineering All Day Long Towards Energy Transparent Factories Engineering Materials and Metallurgy Commencement [program] [Advances in Metrology and Measurement of Engineering Surfaces](#)

Kinematics of Machinery Jan 25 2020 Kinematics of Machinery is the branch of engineering science which deals with the study of relative motion between the various parts of a machine and the forces which act on them. It gives information about the basic concepts and layout of linkages in the assembly of a system or a machine. The subject provides information about the principles in analysing the assembly with respect to the displacement, velocity and acceleration at any point in a link of a mechanism. This book gives technique to find velocity and acceleration of different mechanisms by graphical and analytical methods. It also includes the basic concepts of toothed gearing and kinematics of gear trains and the effect of friction in motion transmission and in machine components. My hope is that this book, through its careful explanations of concepts, practical examples and figures bridges the gap between knowledge and proper application of that knowledge.

Commencement [program] Jul 19 2019

All Day Long Oct 22 2019 Nearly all of us have to work, but how much do we really know about what other people do all day? What is it like to be a fishmonger, a sex worker or an Orthodox rabbi? Or a banker, a research scientist or a carer? How do our jobs affect our lives, beliefs and happiness? And what happens when we don't work? Joanna Biggs has travelled the country to find the answers, talking to interns and bosses, professionals and entrepreneurs, thinkers and doers. She takes us from Westminster to the Outer Hebrides, from a hospital in Wales to the industrial Midlands, introducing us to different worlds of work and the people who inhabit them. Rich with the voices of the wealthy and poor, native and immigrant, women and men of the UK in the twenty-first century, All Day Long shows us who we are through what we do.

Engineering Metrology and Measurements Jul 23 2022 Engineering Metrology and Measurements is a textbook designed for students of mechanical, production and allied disciplines to facilitate learning of various shop-floor measurement techniques and also understand the basics of mechanical measurements.

[Advances in Metrology and Measurement of Engineering Surfaces](#) Jun 17 2019 This book presents the select proceedings of the International Conference on Functional Material, Manufacturing and Performances (ICFMP) 2019. The book covers broad aspects of several topics involved in the metrology and measurement of engineering surfaces and their implementation in automotive, bio-manufacturing, chemicals, electronics, energy, construction materials, and other engineering applications. The contents focus on cutting-edge instruments, methods and standards in the field of metrology and mechanical properties of advanced materials. Given the scope of the topics, this book can be useful for students, researchers and professionals interested in the measurement of surfaces, and the applications thereof.

Towards Energy Transparent Factories Sep 20 2019 This monograph provides a methodological approach for establishing demand-oriented levels of energy transparency of factories. The author presents a systematic indication of energy drivers and cost factors, taking into account the interdependencies between facility and production domains. Particular attention is given to energy flow metering and monitoring. Readers will also be provided with an in-depth description of a planning tool which allows for systematically deriving suitable metering points in complex factory environments. The target audience primarily comprises researchers and experts in the field of factory planning, but the book may also be beneficial for graduate students.

[Foundations of Data Science](#) Oct 14 2021 This book provides an introduction to the mathematical and algorithmic foundations of data science, including machine learning, high-dimensional geometry, and analysis of large networks. Topics include the counterintuitive nature of data in high dimensions, important linear algebraic techniques such as singular value decomposition, the theory of random walks and Markov chains, the fundamentals of important algorithms for machine learning, algorithms and analysis for clustering, probabilistic models for large networks, representation learning including topic modelling and non-negative matrix factorization, wavelets and compressed sensing. Important probabilistic techniques are developed including the law of large numbers, tail inequalities, analysis of random projections, generalization guarantees in machine learning, and moment methods for analysis of phase transitions in large random graphs. Additionally, important structural and complexity measures are discussed such as matrix norms and VC-dimension. This book is suitable for both undergraduate and graduate courses in the design and analysis of algorithms for data.

MECHATRONICS & MICROPROCESSORS: AS PER REVISED VTU SYLLABUS Jul 31 2020 Special Features: This textbook is useful for the undergraduate students embarking introductory course in Mechatronics and Microprocessors and covers the revised syllabus prescribed by Visvesvaraya Technological University (VTU), Karnataka, India with effect from 2008 for third year Mechanical, Mechatronics and Automobile Engineering students. 1. Updated coverage on microprocessors and programming as represented by the Syllabus Map. 2. Working and applications provided for various components. 3. Wide variety of solved problems with step-by-step solutions. 4. Concepts well illustrated by labeled circuit diagrams. 5. Related examples and microprocessors programs. 6. Excellent pedagogy that includes: - 360+ illustrations and line diagrams. - 60+ solved examples. - 260+ review questions. - 160+ objective-type questions. - 30+ chapter-end problems. - 50+ explanatory examples. - Model question papers. About The Book: This textbook is useful for the undergraduate students embarking on an introductory course in Mechatronics and Microprocessors. The text focuses and is written for engineering students, and for those who would like to understand the principles of mechatronics systems and microprocessors. However, it is designed to meet with the requirements for mechanical, manufacturing and automobile engineering programmes prescribed by the Visvesvaraya Technological University (VTU), Karnataka, in India. It covers the revised syllabus prescribed by VTU Karnataka, with effect from 2008 for third year Mechanical, Mechatronics and Automobile Engineering students. - Updated coverage on microprocessors and programming as represented by the Syllabus Map. - Working and applications provided for various components. - Wide variety of solved problems with step-by-step solutions. - Concepts well illustrated by labeled circuit diagrams. - Related examples and microprocessors programs. - Excellent pedagogy that includes: - 360+ illustrations and line diagrams. - 60+ solved examples. - 260+ review questions. - 160+ objective-type questions. - 30+ chapter-end problems. - 50+ explanatory examples. - Model question papers.

Fracture Mechanics May 29 2020 Fracture mechanics studies the development and spreading of cracks in materials. The study uses two techniques including analytical and experimental solid mechanics. The former is used to determine the driving force on a crack and the latter is used to measure material's resistance to fracture. The text begins with a detailed discussion of fundamental concepts including linear elastic fracture mechanics (LEFM), yielding fracture mechanics, mixed mode fracture and computational aspects of linear elastic fracture mechanics. It explains important topics including Griffith theory of brittle crack propagation and its Irwin and Orowan modification, calculation of theoretical cohesive strength of materials through an atomic model and analytical determination of crack tip stress field. This book covers MATLAB programs for calculating fatigue life under variable amplitude cyclic loading. The experimental measurements of fracture toughness parameters K_{IC}, J_{IC} and crack opening displacement (COD) are provided in the last chapter.

Sustainable Gold Mining Wastewater Treatment by Sorption Using Low-Cost Materials May 21 2022 Sorption technique was employed to remove heavy metals from gold mining effluent using natural and plant materials for sustainability. An assessment of the effluent quality of a gold mining company in Ghana indicated that arsenic, copper and cyanide were the major pollutants in the process effluent. Arsenic and copper were successfully removed from the effluent by the studied materials. The research showed that the down-flow fixed-bed treatment configuration is an ideal system for the simultaneous removal of copper and arsenic from low concentration gold mining effluent, in addition to other heavy metals present in very low concentrations.

Wastewater Treatment May 09 2021 Due to the heterogeneous nature of water streams from diverse domestic and industrial sources, and the equally diverse nature of pollutants that can be physical, chemical, and biological in nature, their treatment methods also must be varied in nature. Responding to this complex situation, Wastewater Treatment: Advanced Processes and Technologies p

Practical Electrical Equipment and Installations in Hazardous Areas Jan 05 2021 This book provides the reader with an understanding of the hazards involved in using electrical equipment in Potentially Explosive Atmospheres. It is based on the newly adopted international IEC79 Series of Standards that are now harmonizing and replacing older national Standards. Explosion-proof installations can be expensive to design, install and operate. The strategies and techniques described in this book can significantly reduce costs whilst maintaining plant safety. The book explains the associated terminology and its correct use - from Area Classification through to the selection of explosion-protected electrical apparatus, describing how protection is achieved and maintained in line with these international requirements. The IEC standards require that engineering staff and their management are trained effectively and safely in Hazardous Areas, and this book is designed to help fulfill that need. A basic understanding of instrumentation and electrical theory would be of benefit to the reader, but no previous knowledge of hazardous area installation is required. * An engineer's guide to the hazards and best practice for using electrical equipment in Potentially Explosive Atmospheres. * Fully in line with the newly adopted international standards, the IEC79 series. * Clear explanations of terminology and background information make this the most accessible book on this subject.

Precision Manufacturing Jun 29 2020 Precision Manufacturing provides an introduction to precision engineering for manufacturing. With an emphasis on design and performance of precision machinery for manufacturing - machine tool elements and structure, sources of error, precision machining processes and process models sensors for process monitoring and control, metrology, actuators, and machine design. This book will be of interest to design engineers, quality engineers and manufacturing engineers, academics and those who may or may not have previous experience with precision manufacturing, but want to learn more.

[Emerging Trends in Mechanical Engineering](#) Aug 24 2022 This book comprises select proceedings of the International Conference on Emerging Trends in Mechanical Engineering (ICETME 2018). The book covers various topics of mechanical engineering like computational fluid dynamics, heat transfer, machine dynamics, tribology, and composite materials. In addition, relevant studies in the allied fields of manufacturing, industrial and production engineering are also covered. The applications of latest tools and techniques in the context of mechanical engineering problems are discussed in this book. The contents of this book will be useful for students, researchers as well as industry professionals.

MECHATRONICS: INTEGRATED MECHANICAL ELECTRONIC SYSTEMS (With CD) Oct 26 2022 MarketDesc: This textbook is written for undergraduate students embarking on introductory course in Mechatronics and is also a reference book for engineers, and other practicing professionals, who are keen on understanding the principles of Mechatronic systems and engineering. Special Features: - Text presented in an integrated and lucid style. - Design of discrete control systems using fluid power circuits and PLCs explained. - User-friendly book with simple explanations and illustrations. - Many worked out examples and case studies. - Numerous illustrations, review questions, problems and exercises given. - Appendices, solved question and answers included in companion CD. - Instructor Manual CD with Powerpoint presentations and questionnaire to be made available in December 2008. About The Book: This book integrates the principles of electrical and electronic engineering with Mechatronic system application in a simple manner, and is designed for both mechanical/industrial engineers. This book enables one to design and select analog and digital circuits, microprocessor-based components, mechanical devices, sensors and actuators, and control devices to design modern mechatronic systems. Mechatronics - Integrated Mechanical Electronic System, consists of 16 chapters and each chapter begins with learning objectives and a brief introduction. Topics are then divided into labeled sections with explanations, examples, along with appropriate practical applications. A variety of solved problems with step by step solutions are included. Each chapter ends with key terms, summary of the chapter, objective type questions and exercises.

Fundamentals of Laser Powder Bed Fusion of Metals Mar 19 2022 Laser powder bed fusion of metals is a technology that makes use of a laser beam to selectively melt metal powder layer-by-layer in order to fabricate complex geometries in high performance materials. The technology is currently transforming aerospace and biomedical manufacturing and its adoption is widening into other industries as well, including automotive, energy, and traditional manufacturing. With an increase in design freedom brought to bear by additive manufacturing, new opportunities are emerging for designs not possible previously and in material systems that now provide sufficient performance to be qualified in end-use mission-critical applications. After decades of research and development, laser powder bed fusion is now enabling a new era of digitally driven manufacturing. Fundamentals of Laser Powder Bed Fusion of Metals will provide the fundamental principles in a broad range of topics relating to metal laser powder bed fusion. The target audience includes new users, focusing on graduate and undergraduate students; however, this book can also serve as a reference for experienced users as well, including senior researchers and engineers in industry. The current best practices are discussed in detail, as well as the limitations, challenges, and potential research and commercial opportunities moving forward. Presents laser powder bed fusion fundamentals, as well as their inherent challenges Provides an up-to-date summary of this advancing technology and its potential Provides a comprehensive textbook for universities, as well as a reference for industry Acts as quick-reference guide

Engineering Materials and Metallurgy Aug 20 2019 This treatise on Engineering Materials and Metallurgy contains comprehensive treatment of the matter in simple, lucid and direct language and envelopes a large number of figures which reinforce the text in the most efficient and effective way. The book comprise five chapters (excluding basic concepts) in all and fully and exhaustively covers the syllabus in the above mentioned subject of 4th Semester Mechanical, Production, Automobile Engineering and 2nd semester Mechanical disciplines of Anna University.

Brewing Microbiology Feb 18 2022 Brewing Microbiology discusses the microbes that are essential to successful beer production and processing, and the ways they can pose hazards in terms of spoilage and sensory quality. The text examines the properties and management of these microorganisms in brewing, along with tactics for reducing spoilage and optimizing beer quality. It opens with an introduction to beer microbiology, covering yeast properties and management, and then delves into a review of spoilage bacteria and other contaminants and tactics to reduce microbial spoilage. Final sections explore the impact of microbiology on the sensory quality of beer and the safe management and valorisation of brewing waste. Examines key developments in brewing microbiology, discussing the microbes that are essential for successful beer production and processing Covers spoilage bacteria, yeasts, sensory quality, and microbiological waste management Focuses on developments in industry and academia, bringing together leading experts in the field

[Handbook of Industrial and Systems Engineering](#) Sep 25 2022 Responding to the demand by researchers and practitioners for a comprehensive reference, Handbook of Industrial and Systems Engineering offers full and easy access to a wide range of industrial and systems engineering tools and techniques in a concise format. Providing state of the art coverage from more than 40 contributing authors, many of whom are Materials Science and Engineering: Concepts, Methodologies, Tools, and Applications Sep 13 2021 The design and study of materials is a pivotal component to new discoveries in the various fields of science and technology. By better understanding the components and structures of materials, researchers can increase its applications across different industries. Materials Science and Engineering: Concepts, Methodologies, Tools, and Applications is a compendium of the latest academic material on investigations, technologies, and techniques pertaining to analyzing the synthesis and design of new materials. Through its broad and extensive coverage on a variety of crucial topics, such as nanomaterials, biomaterials, and relevant computational methods, this multi-volume work is an essential reference source for engineers, academics, researchers, students, professionals, and practitioners seeking innovative perspectives in the field of materials science and engineering.

Power Plant Engineering Nov 22 2019 This Text-Cum-Reference Book Has Been Written To Meet The Manifold Requirement And Achievement Of The Students And Researchers. The Objective Of This Book Is To Discuss,

Analyses And Design The Various Power Plant Systems Serving The Society At Present And Will Serve In Coming Decades India In Particular And The World In General. The Issues Related To Energy With Stress And Environment Up To Some Extent And Finally Find Ways To Implement The Outcome.Salient Features# Utilization Of Non-Conventional Energy Resources# Includes Green House Effect# Gives Latest Information S In Power Plant Engineering# Include Large Number Of Problems Of Both Indian And Foreign Universities# Rich Contents, Lucid Manver

Environmental Sustainability Using Green Technologies Apr 08 2021 Environmental Sustainability Using Green Technologies explains the role of green engineering and social responsibility in the development of chemicals, processes, products, and systems. Examining the relationship between economy, ecology, and equality—key factors in developing a sustainable society—this book covers several aspects of environmental sustainability, explores ways to use resources and processes more responsibly, and describes the tools required to overcome various challenges. It outlines the biotechnological applications, techniques, and processes needed to secure sustainable development and ensure long-lasting future success. Insightful and highly comprehensive, this body of work addresses: Wastewater treatment technologies Nanomaterials in environmental applications Green synthesis of ecofriendly nanoparticles The role of phytoremediation in maintaining environmental sustainability Algal biosorption of heavy metals Mass production of microalgae for industrial applications Integrated biological system for the treatment of sulfate rich wastewater Anaerobic digestion of pharmaceutical effluent Treatment of textile dye using bioaccumulation techniques Production of biosurfactants and their applications in bioremediation Biodegradable polymers Microbial fuel cell (MFC) technology Biodiesel from nonedible oil using a packed bed membrane reactor Production of ecofriendly biodiesel from marine sources Pretreatment techniques for the enhancement of biogas production A review of source apportionment of air pollutants by receptor models and more Environmental Sustainability Using Green Technologies provides excellent reference material that aids and supports sustainability, and offers practical guidance for professors, research scholars, industrialists, biotechnologists, and workers in the applied field of environmental engineering.

A Practical Guide for SystemVerilog Assertions Nov 15 2021 SystemVerilog language consists of three categories of features – Design, Assertions and Testbench. Assertions add a whole new dimension to the ASIC verification process. Engineers are used to writing testbenches in verilog that help verify their design. Verilog is a procedural language and is very limited in capabilities to handle the complex ASICs built today. SystemVerilog assertions (SVA) is a declarative language. The temporal nature of the language provides excellent control over time and allows multiple processes to execute simultaneously. This provides the engineers a very strong tool to solve their verification problems. The language is still new and the thinking is very different from the user's perspective when compared to standard verilog language. There is not enough expertise or intellectual property available as of today in the field. While the language has been defined very well, there is no practical guide that shows how to use the language to solve real verification problems. This book is a practical guide that will help people to understand this new language and adopt assertion based verification methodology quickly.

Advances in Oil-Water Separation Jun 10 2021 Advances in Oil-Water Separation: A Complete Guide for Physical, Chemical, and Biochemical Processes discusses a broad variety of chemical, physical and biochemical processes, including skimming, membrane separation, adsorption, onsite chemical reactions, burning and usage of suitable microbial strains for onsite degradation of oil. It critically reviews all current developments in oil-water separation processes and technologies, identifies gaps and illuminates the scope for future research and development in the field. This book provides researchers, engineers and environmental professionals working in oil recovery, storage and refineries with solutions for disposal of waste oil and separation of oil from water in a sustainable, environmentally-friendly way. As the book provides a complete state-of-art overview on oil-water separation technologies, it will also ease literature searches on oil-water separation technologies. Provides a comprehensive overview of state-of-the-art developments in oil-water separation methods Discusses the pros and cons of established processes Guides the reader towards the selection of the right technique/process for each oil-water separation problem Presents current developments on adsorbent based oil-water separation

Microbes for Sustainable Development and Bioremediation Oct 02 2020 Microbes are the predominant form of life on the planet due to their broad range of adaptation and versatile nutritional behavior. The ability of some microbes to inhabit hostile environment incompatible with most forms of life means that their habitat defines the extent of the biosphere and delineates the barrier between the biosphere and geosphere. The direct and indirect role of microbes that include bacteria, fungi, actinomycetes, viruses, mycoplasma, and protozoans are very much important in development of modern human society for food, drugs, textiles, agriculture, and environment.

Furthermore, microorganisms and their enzyme system are responsible for the degradation of various organic matters. Microbes for Sustainable Development and Bioremediation emphasizes the role of microbes for sustainable development of ecosystem. Environmental microbiology role in biogeochemical cycle and bioremediation of environmental waste is major theme, which comprises the following aspects: Bacterial phytoextraction mechanism of heavy metals by native hyperaccumulator plants from complex waste-contaminated site for eco-restoration Role of microbial enzyme for eco-friendly recycling of industrial waste Field-scale remediation of crude oil-contaminated desert soil and treatment technology Microbial technology for metal recovery from e-waste printed circuit board Impact of genomic data on sustainability of ecosystem Methane monooxygenases: their regulations and applications Role of microbes in environmental sustainability and food preservation This book will be directly beneficial to Researchers and classroom students, in areas of biotechnology, environmental microbiology, molecular biology, and environmental engineering with specialized collection of cutting-edge knowledge.

Connectivity Frameworks for Smart Devices Apr 27 2020 This timely volume provides a review of the state-of-the-art frameworks and methodologies for connecting diverse objects and devices according to the vision for an Internet of Things (IoT). A specific focus is placed on the communication, security, and privacy aspects of device connectivity in distributed environments. Insights and case studies are provided by an authoritative selection of contributors of international repute into the latest research advances and practical approaches with respect to the connectivity of heterogeneous smart and sensory devices. Topics and features: Examines aspects of device connectivity within the IoT Presents a resource-based architecture for IoT, and proposes a resource management framework for corporate device clouds Reviews integration approaches for the IoT environment, and discusses performance optimization of intelligent home networks Introduces a novel solution for interoperable data management in multi-clouds, and suggests an approach that addresses the debate over network neutrality in the IoT Describes issues of data security, privacy, access control, and authentication in the distributed IoT environment Reviews the evolution of VANETs in relation to the Internet of Vehicles, and provides a perspective on developing smart sustainable cities This invaluable text/reference will be of great benefit to a broad audience, from students and researchers interested in the IoT vision, to practicing communication engineers and network security specialists.

Globalized Solutions for Sustainability in Manufacturing Jan 17 2022 The 18th CIRP International Conference on Life Cycle Engineering (LCE) 2011 continues a long tradition of scientific meetings focusing on the exchange of industrial and academic knowledge and experiences in life cycle assessment, product development, sustainable manufacturing and end-of-life-management. The theme " Globalized Solutions for Sustainability in Manufacturing " addresses the need for engineers to develop solutions which have the potential to address global challenges by providing products, services and processes taking into account local capabilities and constraints to achieve an economically, socially and environmentally sustainable society in a global perspective. Globalized Solutions for Sustainability in Manufacturing do not only involve products or services that are changed for a local market by simple substitution or the omitting of functions. Products and services need to be addressed that ensure a high standard of living everywhere. Resources required for manufacturing and use of such products are limited and not evenly distributed in the world. Locally available resources, local capabilities as well as local constraints have to be drivers for product- and process innovations with respect to the entire life cycle. The 18th CIRP International Conference on Life Cycle Engineering (LCE) 2011 serves as a platform for the discussion of the resulting challenges and the collaborative development of new scientific ideas.

Re-engineering Manufacturing for Sustainability Jul 11 2021 This edited volume presents the proceedings of the 20th CIRP LCE Conference, which cover various areas in life cycle engineering such as life cycle design, end-of-life management, manufacturing processes, manufacturing systems, methods and tools for sustainability, social sustainability, supply chain management, remanufacturing, etc.

INDUSTRIAL ENGINEERING AND MANAGEMENT Nov 03 2020 Magement functions are essential parts of the industry. Similarly this subject is an essential input for diploma engineering students. It is applicable to all branches with no exception. The concept of magement and its industrial application will definitely add magerial angle making students techno-commercial professoils. This book is intended for giving such input to all the fil year diploma engineering students.

Developing and Monitoring Smart Environments for Intelligent Cities Dec 16 2021 In recent years, intelligent cities, also known as smart cities or cognitive cities, have become a perceived solution for improving the quality of life of citizens while boosting the efficiency of city services and processes. This new vision involves the integration of various sectors of society through the use of the internet of things. By continuing to enhance research for the better development of the smart environments needed to sustain intelligent cities, citizens will be empowered to provision the e-services provided by the city, city officials will have the ability to interact directly with the community as well as monitor digital environments, and smart communities will be developed where citizens can enjoy improved quality of life. Developing and Monitoring Smart Environments for Intelligent Cities compiles the latest research on the development, management, and monitoring of digital cities and intelligent environments into one complete reference source. The book contains chapters that examine current technologies and the future use of internet of things frameworks as well as device connectivity approaches, communication protocols, security challenges, and their inherent issues and limitations. Including unique coverage on topics such as connected vehicles for smart transportation, security issues for smart homes, and building smart cities for the blind, this reference is ideal for practitioners, urban developers, urban planners, academicians, researchers, and students.

Microbial Remediation of Azo Dyes with Prokaryotes Sep 01 2020 This book details microbial remediation of azo dyes from wastewater including information on existing methods and technologies, their graduation, the emergence of new technologies, industrial practices, and real-case studies. Emphasis is placed on industrial applications and the elimination of toxic pollutants from wastewater through bacterial approach. Specific aspects discussed include effective separation through new adsorbents / newcomers, ion exchange process, coagulation / formulations, separations, and biological methods from wastewater. This book explains a paradigm shift towards the recovery of materials and energy from azo dye containing wastewater. Features: Provides information on the topic of prokaryotic-based technologies for azo dye degradation in wastewater treatment plant. Describes microbial enzymes and their role in bioremediation of environmental pollutants. Covers industrial acid mine tailing wastes, plastic wastes, distillery, and pulp paper industry effluent. Discusses critical insight into limitations of related technologies. Explains concepts through illustrations, figures, tables, and trivia boxes. This book aims at Researchers, Professionals, Graduate Students in Bioremediation and Environmental Protection, Waste Management, Applied Microbiology, Botany and Plant Biotechnology.

Automobile Engineering Feb 06 2021 Deals with the basic principles on which modern automobiles function. The book provides minute details of the components, their working principles and their importance in the automobile industry. The language of the book is kept simple so that any student/automobile enthusiast can easily understand the basic concepts of the components utilized in the manufacturing of vehicles.

Encyclopedia of Marine Biotechnology Dec 04 2020 A keystone reference that presents both up-to-date research and the far-reaching applications of marine biotechnology Featuring contributions from 100 international experts in the field, this five-volume encyclopedia provides comprehensive coverage of topics in marine biotechnology. It starts with the history of the field and delivers a complete overview of marine biotechnology. It then offers information on marine organisms, bioprocess techniques, marine natural products, biomaterials, bioenergy, and algal biotechnology. The encyclopedia also covers marine food and biotechnology applications in areas such as pharmaceuticals, cosmetics, and nutraceuticals. Each topic in Encyclopedia of Marine Biotechnology is followed by 10-30 subtopics. The reference looks at algae cosmetics, drugs, and fertilizers; biodiversity; chitins and chitosans; aerolysin-1, toluquinol, astaxanthin, and fucoxanthin; and algal and fish genomics. It examines neuro-protective compounds from marine microorganisms; potential uses and medical management of neurotoxic phytooxins; and the role of metagenomics in exploring marine microbiomes. Other sections fully explore marine microbiology, pharmaceutical development, seafood science, and the new biotechnology tools that are being used in the field today. One of the first encyclopedic books to cater to experts in marine biotechnology Brings together a diverse range of research on marine biotechnology to bridge the gap between scientific research and the industrial arena Offers clear explanations accompanied by color illustrations of the techniques and applications discussed Contains studies of the applications of marine biotechnology in the field of biomedical sciences Edited by an experienced author with contributions from internationally recognized experts from around the globe Encyclopedia of Marine Biotechnology is a must-have resource for researchers, scientists, and marine biologists in the industry, as well as for students at the postgraduate and graduate level. It will also benefit companies focusing on marine biotechnology, pharmaceutical and biotechnology, and bioenergy.

Practical Hydraulic Systems: Operation and Troubleshooting for Engineers and Technicians Feb 24 2020 Whatever your hydraulic applications, Practical Hydraulic Systems: Operation & Troubleshooting For Engineers & Technicians will help you to increase your knowledge of the fundamentals, improve your maintenance programs and become an excellent troubleshooter of problems in this area. Cutaways of all major components are included in the book to visually demonstrate the components' construction and operation. Developing an understanding of how it works leads to an understanding of how and why it fails. Multimedia views of the equipment are shown, to give as realistic a view of hydraulic systems as possible. The book is highly practical, comprehensive and interactive. It discusses Hydraulic Systems construction, design applications, operations, maintenance, and management issues and provides you with the most up-to-date information and Best Practice in dealing with the subject. * A focus on maintenance and troubleshooting makes this book essential reading for practising engineers. * Written to cover the requirements of mechanical / industrial and civil engineering. * Cutaway diagrams demonstrate the construction and operation of key equipment.

Springer Handbook of Nanotechnology Dec 24 2019 This comprehensive handbook has become the definitive reference work in the field of nanoscience and nanotechnology, and this 4th edition incorporates a number of recent new developments. It integrates nanofabrication, nanomaterials, nanodevices, nanomechanics, nanotribology, materials science, and reliability engineering knowledge in just one volume. Furthermore, it discusses various nanostructures; micro/nanofabrication; micro/nanodevices and biomicro/nanodevices, as well as scanning probe microscopy; nanotribology and nanomechanics; molecularly thick films; industrial applications and nanodevice reliability; societal, environmental, health and safety issues; and nanotechnology education. In this new edition, written by an international team of over 140 distinguished experts and put together by an experienced editor with a comprehensive understanding of the field, almost all the chapters are either new or substantially revised and expanded, with new topics of interest added. It is an essential resource for anyone working in the rapidly evolving field of key technology, including mechanical and electrical engineers, materials scientists, physicists, and chemists.

Composite Materials for Extreme Loading Mar 07 2021 This book presents the select proceedings of the Indo-Korean workshop on Multi Functional Materials for Extreme Loading, 2021. The book mainly focuses on the very important emerging area of response to extreme loading of composites as well as other materials involving characterization studies, failure mechanisms conditions under quasi static to high strain rates, impact loads, blast loads, crash analysis, and other thermal and fatigue loads. The book also includes other important areas related to special materials and techniques such as 3D printing, nano-composites, multifunctional materials, and high temperature materials. The contents of this book are useful for beginners, industrial designers, academic researchers, and graduate students.

Site Reliability Engineering Apr 20 2022 The overwhelming majority of a software system 's lifespan is spent in use, not in design or implementation. So, why does conventional wisdom insist that software engineers focus primarily on the design and development of large-scale computing systems? In this collection of essays and articles, key members of Google 's Site Reliability Team explain how and why their commitment to the entire lifecycle has enabled the company to successfully build, deploy, monitor, and maintain some of the largest software systems in the world. You 'll learn the principles and practices that enable Google engineers to make systems more scalable, reliable, and efficient—lessons directly applicable to your organization. This book is divided into four sections: Introduction—Learn what site reliability engineering is and why it differs from conventional IT industry practices Principles—Examine the patterns, behaviors, and areas of concern that influence the work of a site reliability engineer (SRE) Practices—Understand the theory and practice of an SRE 's day-to-day work: building and operating large distributed computing systems Management—Explore Google's best practices for training, communication, and meetings that your organization can use

Green Chemistry for Dyes Removal from Waste Water Aug 12 2021 The use of synthetic chemical dyes in various industrial processes, including paper and pulp manufacturing, plastics, dyeing of cloth, leather treatment and printing, has increased considerably over the last few years, resulting in the release of dye-containing industrial effluents into the soil and aquatic ecosystems. The textile industry generates high-polluting wastewaters and their treatment is a very serious problem due to high total dissolved solids (TDS), presence of toxic heavy metals, and the non-biodegradable nature of the dyes in the effluent. The chapters in this book provide an overview of the problem and its solution from different angles. These problems and solutions are presented in a genuinely holistic way by world-renowned researchers. Discussed are various promising techniques to remove dyes, including the use of nanotechnology, ultrasound, microwave, catalysts, biosorption, enzymatic treatments, advanced oxidation processes, etc., all of which are " green. " Green Chemistry for Dyes Removal from Wastewater comprehensively discusses: Different types of dyes, their working and methodologies and various physical, chemical and biological treatment methods employed Application of advanced oxidation processes (AOPs) in dyes removal whereby highly reactive hydroxyl radicals are generated chemically, photochemically and/or by radiolytic/sonolytic means. The potential of ultrasound as an AOP is discussed as well. Nanotechnology in the treatment of dye removal types of adsorbents for removal of toxic pollutants from aquatic systems Photocatalytic oxidation process for dye degradation under both UV and visible light, application of solar light and solar photoreactor in dye degradation

A Text Book of Automobile Engineering Jun 22 2022

Machining Technology for Composite Materials Mar 27 2020 Machining processes play an important role in the manufacture of a wide variety of components. While the processes required for metal components are well-

established, they cannot always be applied to composite materials, which instead require new and innovative techniques. Machining technology for composite materials provides an extensive overview and analysis of both traditional and non-traditional methods of machining for different composite materials. The traditional methods of turning, drilling and grinding are discussed in part one, which also contains chapters analysing cutting forces, tool wear and surface quality. Part two covers non-traditional methods for machining composite materials, including electrical discharge and laser machining, among others. Finally, part three contains chapters that deal with special topics in machining processes for composite materials, such as cryogenic machining and processes for wood-based composites. With its renowned editor and distinguished team of international contributors, Machining technology for composite materials is an essential reference particularly for process designers and tool and production engineers in the field of composite manufacturing, but also for all those involved in the fabrication and assembly of composite structures, including the aerospace, marine, civil and leisure industry sectors. Provides an extensive overview of machining methods for composite materials Chapters analyse cutting forces, tool wear and surface quality Cryogenic machining and processes for wood based composites are discussed

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