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Basic Mechanical Engineering - T. S. Rajan 2007

The Book Provides A Glimpse Of The Fascinating Field Of Mechanical Engineering To The Entrants To Engineering Colleges. It Gives An Insight Into The Major Areas Of Mechanical Engineering, Like Power Production, Energy Alternatives, Production Alternatives And The Latest Computer Controlled Machine Tools. The Book Is Made Interesting With Numerous Sketches And Schematics - A Definite Advantage In Understanding The Subject.

Journal of the Institution of Engineers (India). - 2000

Highway Engineering - L.R. Kadiyali 2017

This book on Highway Engineering shall be useful for B.E./B.Tech & M.E./M.Tech students of Civil Engineering. It shall also be useful for practicing Engineering and designers.

Fundamentals of Nuclear Science and Engineering Second Edition - J. Kenneth Shultis 2007-09-07

Since the publication of the bestselling first edition, there have been numerous advances in the field of nuclear science. In medicine, accelerator based teletherapy and electron-beam therapy have become standard. New demands in national security have stimulated major advances in nuclear instrumentation. An ideal introduction to the fundamentals of nuclear science and engineering, this book presents the basic nuclear science needed to understand and quantify an extensive range of nuclear phenomena. New to the Second Edition— A chapter on radiation detection by Douglas McGregor Up-to-date coverage of radiation hazards, reactor designs, and medical applications Flexible organization of material that allows for quick reference This edition also takes an in-depth look at particle accelerators, nuclear fusion reactions and devices, and nuclear technology in medical diagnostics and treatment. In addition, the author discusses applications such as the direct conversion of nuclear energy into electricity. The breadth of coverage is unparalleled, ranging from the theory and design characteristics of nuclear reactors to the identification of biological risks associated with ionizing radiation. All topics are supplemented with extensive nuclear data compilations to perform a wealth of calculations. Providing extensive coverage of physics, nuclear science, and nuclear technology of all types, this up-to-date second edition of Fundamentals of Nuclear Science and Engineering is a key reference for any physicists or engineer.

Textbook of Thermal Engineering - J. K. Gupta 1997

Nuclear Power Plant Engineering - James H. Rust 1979

Feature Papers - Michael Henson 2018-10-04

This book is a printed edition of the Special Issue "Feature Papers" that was published in Processes

The Metabolism, Structure, and Function of Plant Lipids - Paul K. Stumpf 2012-12-06

The Seventh International Symposium on the Structure and Function of Plant Lipids took place at the University of California, Davis, California July 27th to August 1st, 1986. This was the first time the Symposium was held in the United States. The list of previous host cities reads, Norwich, Karlsruhe, Goteborg, Paris, Groningen, Neuchatel. The addition of Davis to this distinguished list was made by the organizers with the doubts of people who give invitations to parties - will anybody come? In fact 155 participants registered and there were 21 spouses in attendance. The scientific program was composed of nine sessions: biochemistry of isoprenoids and sterols, function of isoprenoids and sterols, structure and function of lipids, biosynthesis of complex lipids, fatty acid oxygenases and desaturases, medium and long chain fatty acids, interaction of university, government and industrial research, algal lipids, and genetics and biotechnology. In addition to these sessions of plenary lectures, there were four poster sessions in which about 140

posters were presented. All of this was packed into four days, and there was some comment about the scarcity of time to ask questions of the speakers, discuss the posters and even to eat lunch. The compression of the program was a result of the continued desire of the organizing committees to avoid concurrent sessions. The congregation of participants into a single session increases interaction and generates a feeling of unity at these symposia.

Electrical Safety, Fire Safety Engineering & Safety Management - Rao S

Managing aquifer recharge - UNESCO 2021-11-25

Environmental Studies - Arun K Tripathi 2016-08-24

This book contains more than 1400 multiple choice questions covering various environment-related topics, such as ecology and environment, biodiversity, natural resources, eco-marketing, environmental finance, air pollution, and water pollution. The first chapter is a comprehensive introduction to environmental studies. The book will prove beneficial for academicians, students pursuing courses on environmental studies, professionals, aspirants of various competitive exams, and stakeholders in the environment sector. It can also be handy for various quiz programmes.

Electrical Energy Systems - Shahriar Khan 2013-08-01

This textbook presents a modern approach for undergraduate (and graduate) Engineering students. Starting with Generators, it continues with Thermodynamics, Power Stations, Transportation, etc. While the material has been made easy-to-understand, there is emphasis on depth-of-knowledge and engineering principles. The chapter breakdown is as follows: 1. Forms and Sources of Energy 2. AC Generator 3. AC Generators in Parallel 4. DC Generator 5. Hydroelectric Power 6. Thermodynamic Processes 7. Carnot Cycle and Second Law of Thermodynamics 8. Reciprocating Engines 9. Gas Turbines 10. Steam Turbines 11. Solar Energy 12. Wind Turbines 13. Battery Technology 14. Electric and Hydroelectric Vehicles 15. Hydrocarbon Exploration 16. Saving Energy 17. Saving the Environment

Basic Mechanical Engineering - Rajput 2002

A textbook of power plant engineering - R. K. Rajput 2008

Engineering Thermodynamics - R. K. Singal 2013-12-30

Engineering Thermodynamics has been designed for students of all branches of engineering specially undergraduate students of Mechanical Engineering. The book will also serve as reference manual for practising engineers. The book has been written in simple language and systematically develops the concepts and principles essential for understanding the subject. The text has been supplemented with solved numerical problems, illustrations and question banks. The present book has been divided in five parts: Thermodynamic Laws and Relations Properties of Gases and Vapours Thermodynamics Cycles Heat Transfer and Heat Exchangers Annexures

Polymeric Materials - Marta Fernández-García 2019-05-28

This book collects the articles published in the Special Issue "Polymeric Materials: Surfaces, Interfaces and Bioapplications". It shows the advances in polymeric materials, which have tremendous applications in agricultural films, food packaging, dental restoration, antimicrobial systems, and tissue engineering. These polymeric materials are presented as films, coatings, particles, fibers, hydrogels, or networks. The potential to modify and modulate their surfaces or their content by different techniques, such as click chemistry, ozonation, breath figures, wrinkle formation, or electrospray, are also explained, taking into account the relationship between the structure and properties in the final application. Moreover, new trends in the development of such materials are presented, using more environmental friendly and safe methods, which, at the same time, have a high impact on our society.

Power Plant Engineering - G. R. Nagpal 2008

Power Plant Engineering - A. K. Raja 2006

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 Manner

Power Plant Engineering - P. K. Nag 2002

Design of Foundations for Offshore Wind Turbines - Subhamoy Bhattacharya 2019-04-29

Comprehensive reference covering the design of foundations for offshore wind turbines As the demand for "green" energy increases the offshore wind power industry is expanding at a rapid pace around the world. Design of Foundations for Offshore Wind Turbines is a comprehensive reference which covers the design of foundations for offshore wind turbines, and includes examples and case studies. It provides an overview of a wind farm and a wind turbine structure, and examines the different types of loads on the offshore wind turbine structure. Foundation design considerations and the necessary calculations are also covered. The geotechnical site investigation and soil behavior/soil structure interaction are discussed, and the final chapter takes a case study of a wind turbine and demonstrates how to carry out step by step calculations. Key features: New, important subject to the industry. Includes calculations and case studies. Accompanied by a website hosting software and data files. Design of Foundations for Offshore Wind Turbines is a must have reference for engineers within the renewable energy industry and is also a useful guide for graduate students in this area.

An Introduction to Thermal Power Plant Engineering and Operation - P.K Das, A.K Das 2018-11-08

This book is intended to meet the requirements of the fresh engineers on the field to endow them with indispensable information, technical know-how to work in the power plant industries and its associated plants. The book provides a thorough understanding and the operating principles to solve the elementary and the difficult problems faced by the modern young engineers while working in the industries. This book is written on the basis of 'hands-on' experience, sound and in-depth knowledge gained by the authors during their experiences faced while working in this field. The problem generally occurs in the power plants during operation and maintenance. It has been explained in a lucid language.

Energy Studies - William Shepherd 2003

How is the future world energy demand to be met? The rates of use of the fossil fuels--coal, oil and natural gas--are increasing all over the world. The remaining stocks are finite and are not renewable. This important book considers the various options of renewable energy, including water energy, wind energy and biomass, solar thermal and solar photovoltaic energy. And should the nuclear option remain open? The book examines the environmental implications and economic viability of all fossil and renewable sources, introduces more distant future options of geothermal energy and nuclear fusion, and discusses a near-future energy strategy.

Power Systems - Leonard L. Grigsby 2017-12-19

Power Systems, Third Edition (part of the five-volume set, The Electric Power Engineering Handbook) covers all aspects of power system protection, dynamics, stability, operation, and control. Under the editorial guidance of L.L. Grigsby, a respected and accomplished authority in power engineering, and section editors Andrew Hanson, Pritindra Chowdhuri, Gerry Sheblé, and Mark Nelms, this carefully crafted reference includes substantial new and revised contributions from worldwide leaders in the field. This content provides convenient access to overviews and detailed information on a diverse array of topics. Concepts covered include: Power system analysis and simulation Power system transients Power system planning (reliability) Power electronics Updates to nearly every chapter keep this book at the forefront of developments in modern power systems, reflecting international standards, practices, and technologies. New sections present developments in small-signal stability and power system oscillations, as

well as power system stability controls and dynamic modeling of power systems. With five new and 10 fully revised chapters, the book supplies a high level of detail and, more importantly, a tutorial style of writing and use of photographs and graphics to help the reader understand the material. New chapters cover: Symmetrical Components for Power System Analysis Transient Recovery Voltage Engineering Principles of Electricity Pricing Business Essentials Power Electronics for Renewable Energy A volume in the Electric Power Engineering Handbook, Third Edition Other volumes in the set: K12642 Ele

Engineering Thermodynamics - R. K. Rajput 2010

Mechanical Engineering

Basic Electrical Engineering - Mehta V.K. & Mehta Rohit 2008

For close to 30 years, [Basic Electrical Engineering] has been the go-to text for students of Electrical Engineering. Emphasis on concepts and clear mathematical derivations, simple language coupled with systematic development of the subject aided by illustrations makes this text a fundamental read on the subject. Divided into 17 chapters, the book covers all the major topics such as DC Circuits, Units of Work, Power and Energy, Magnetic Circuits, fundamentals of AC Circuits and Electrical Instruments and Electrical Measurements in a straightforward manner for students to understand.

Indian Book Industry - 1983

Renewable Energy and Sustainable Buildings - Ali Sayigh 2019-08-30

This book contains selected papers presented during the World Renewable Energy Network's 28th anniversary congress at the University of Kingston in London. The forum highlighted the integration of renewables and sustainable buildings as the best means to combat climate change. In-depth chapters written by the world's leading experts highlight the most current research and technological breakthroughs and discuss policy, renewable energy technologies and applications in all sectors - for heating and cooling, agricultural applications, water, desalination, industrial applications and for the transport sectors. Presents cutting-edge research in green building and renewable energy from all over the world; Covers the most up-to-date research developments, government policies, business models, best practices and innovations; Contains case studies and examples to enhance practical application of the technologies.

Renewable Energy and Jobs - Annual Review 2020 - International Renewable Energy Agency IRENA 2019-06-01

The sixth edition of the series highlights employment trends in renewables worldwide, noting increasing diversification of the supply chain.

Harness It - Michael Ginsberg 2019-06-03

Considering the increasing importance of renewable energy for climate change mitigation, this book provides an overview of how renewable energy sources are integrated into the grid to promote better understanding among students and business professionals in the utility sector and across industries. Following an overview of the technical and historical development of the electric grid in the U.S. and Europe, this guide reviews hydropower, solar photovoltaics, wind energy, fuel cell, and battery technologies. The author also presents models for the connection of these renewable energy sources from large-scale to on-site and community power/microgrids. The models are explained through case studies in the developed and developing worlds that explore how technical evaluations are conducted, policy incentives implemented, and project finance applied. Considering the increasing importance of renewable energy for climate change mitigation, this book provides an overview of how renewable energy sources are integrated into the grid to promote better understanding among students and business professionals in the utility sector and across industries. Most literature on grid interconnection is highly technical, assuming an in-depth understanding of electrical engineering. With the rise of clean technologies and the diversity of interconnection models, this guide fills a gap in the existing literature by equipping non-technical business managers with the salient information they need to make critical decisions for their organizations.

Indian Books - 1980

Power Station Engineering and Economy - Bernhardt G. A. Skrotzki 1960

Indian Books in Print - 2002

Power Plant Engineering - Larry Drbal 2012-12-06

This comprehensive volume provides a complete, authoritative, up-to-date reference for all aspects of power plant engineering. Coverage ranges from engineering economics to coal and limestone handling, from design processes to plant thermal heat balances. Both theory and practical applications are covered, giving engineers the information needed to plan, design, construct, upgrade, and operate power plants. Power Plant Engineering is the culmination of experience of hundreds of engineers from Black & Veatch, a leading firm in the field for more than 80 years. The authors review all major power generating technologies, giving particular emphasis to current approaches. Special features of the book include: * More than 1000 figures and lines drawings that illustrate all aspects of the subject. * Coverage of related components and systems in power plants such as turbine-generators, feedwater heaters, condenser, and cooling towers. * Definitions and analyses of the features of various plant systems. * Discussions of promising future technologies. Power Plant Engineering will be the standard reference in the professional engineer's library as the source of information on steam power plant generation. In addition, the clear presentation of the material will make this book suitable for use by students preparing to enter the field.

Ullmann's Chemical Engineering and Plant Design - Wiley-VCH 2004-12-27

Since the unabridged 40-volume Ullmann's Encyclopedia is inaccessible to many readers - particularly individuals, smaller companies or institutes - all the information on chemical engineering and plant design has been condensed into this convenient two-volume set. Based on the very latest edition of Ullmann's, this ready reference is the one-stop resource for the plant design engineering community. Starting with the quantitative treatment and fundamentals of chemical engineering, it combines all aspects of process development and reactor technology, as well as detailing their practical applications in sections devoted to plant design, scale-up and plant safety. The two volumes are rounded off by a keyword and an author index. Throughout, readers benefit from the rigorous and cross-indexed nature of the parent reference, and will find both broad introductory information as well as in-depth details of significance to industrial and academic environments.

Power Plant Engineering - C. Elanchezhian 2010-09-30

This textbook has been designed for students of B.E./B.Tech Mechanical Engineering. It provides all the necessary information about power plants and steam power plants, nuclear and hydel power plants, diesel and gas turbine power plants, geothermal plants, ocean thermal plants, tidal power plants, and solar power plants, and the economics behind them. Key features: Each chapter includes a solved problem. The text is supplemented with illustrated diagrams, tables, flow charts, and graphs wherever required, for clear understanding. A summary at the end of each chapter helps students to review material presented. Review questions and exercise problems have been designed to enhance the engineering skills of the student.

Industrial Engineering And Management - O. P. Khanna 1980

POWER PLANT ENGINEERING - MANOJ KUMAR GUPTA 2012-06-12

This textbook has been designed for a one-semester course on Power Plant Engineering studied by both degree and diploma students of

mechanical and electrical engineering. It effectively exposes the students to the basics of power generation involved in several energy conversion systems so that they gain comprehensive knowledge of the operation of various types of power plants in use today. After a brief introduction to energy fundamentals including the environmental impacts of power generation, the book acquaints the students with the working principles, design and operation of five conventional power plant systems, namely thermal, nuclear, hydroelectric, diesel and gas turbine. The economic factors of power generation with regard to estimation and prediction of load, plant design, plant operation, tariffs and so on, are discussed and illustrated with the help of several solved numerical problems. The generation of electric power using renewable energy sources such as solar, wind, biomass, geothermal, tidal, fuel cells, magneto hydrodynamic, thermoelectric and thermionic systems, is discussed elaborately. The book is interspersed with solved problems for a sound understanding of the various aspects of power plant engineering. The chapter-end questions are intended to provide the students with a thorough reinforcement of the concepts discussed.

Polyelectrolytes - Visakh P. M. 2014-09-03

This book offers a valuable reference source to graduate and post graduate students, engineering students, research scholars polymer engineers from industry. The book provides the reader with current developments of theoretical models describing the thermodynamics polyelectrolytes as well as experimental findings. A particular emphasis is put on the rheological description of polyelectrolyte solutions and hydrogels.

Tool Engineering; Jigs and Fixtures - Albert Atkins Dowd 2018-02-05

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The Electric Power Engineering Handbook - Leonard L. Grigsby 2000-09-28

The astounding technological developments of our age depend on a safe, reliable, and economical supply of electric power. It stands central to continued innovations and particularly to the future of developing countries. Therefore, the importance of electric power engineering cannot be overstated, nor can the importance of this handbook to the power engineer. Until now, however, power engineers have had no comprehensive reference to help answer their questions quickly, concisely, and authoritatively-A one-stop reference written by electric power engineers specifically for electric power engineers.