

J B Gupta Power Plant Engineering

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Principles of Solar Engineering, Second Edition

- D. Yogi Goswami 2000-01-01

This second edition of Principles of Solar Engineering covers the latest developments in a broad range of topics of interest to students and professionals interested in solar energy applications. With the scientific fundamentals included, the book covers important areas such as heating and cooling, passive

solar applications, detoxification and biomass energy conversion. This comprehensive textbook provides examples of methods of solar engineering from around the world and includes examples, solutions and data applicable to international solar energy issues. A solutions manual is available to qualified instructors.

Nuclear Science Abstracts -
1976-03

Bulletin of the Institution of Engineers (India). -

Institution of Engineers (India)
1984

Principles of Power System -

VK Mehta & Rohit Mehta 2005

The subject of power systems has assumed considerable importance in recent years and growing demand for a compact work has resulted in this book. A new chapter has been added on Neutral Grounding.

Greenbelts for Pollution

Abatement - Shahid A. Abbasi
2000

Contents: Introduction and Brief History of Greenbelts, Vegetation as Sink for Air Pollutions, Types of Greenbelt and their Applications, Approach to Greenbelt Design, Greenbelt Design Based on Mathematical Modelling, Solution and Testing of Models, Some Useful Guidelines Emerging from Our Green Belt Design Model, Design of Greenbelts for the Industrial Complexes of Pondicherry.

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
Transmission & Distribution Of Electrical Power - J. B. Gupta
2009

The International Conference on Advanced Machine Learning

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Technologies and Applications (AMTA2019) -

About Ella Hassanien

2019-03-16

This book presents the peer-reviewed proceedings of the 4th International Conference on Advanced Machine Learning Technologies and Applications (AMTA 2019), held in Cairo, Egypt, on March 28–30, 2019, and organized by the Scientific Research Group in Egypt (SRGE). The papers cover the latest research on machine learning, deep learning, biomedical engineering, control and chaotic systems, text mining, summarization and language identification, machine learning in image processing, renewable energy, cyber security, and intelligence swarms and optimization.

Hydrogen Fuel - Ram B. Gupta

2008-07-30

From Methane to Hydrogen-Making the Switch to a Cleaner Fuel Source The world's overdependence on fossil fuels has created environmental problems, such as air pollution and global warming, as well as political and economic unrest.

With water as its only by-product and its availability in all parts of the world, hydrogen promises to be the next great

Water Resources and Development - Clive Agnew 2010-11-03

Since the start of the twenty-first century there has been an unprecedented focus upon water as a key factor in the future of both society and environment. Water management lies at the heart of strategies of development as does the added hazard of climate change. Water Resources and Development provides a stimulating interdisciplinary introduction to the role of water resources in shaping opportunities and constraints for development. The book begins by charting the evolution of approaches to water management. It identifies an emerging polarization in the late twentieth century between 'technical' and 'social' strategies. In the past decade these two axes of policy debate have been further intersected by discussion of the scale at

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which management decisions should be made: the relative effectiveness of 'global' and 'local' governance of water. A variety of case studies elaborate this analytical framework, exemplifying four key development challenges: economic growth, poverty reduction, competition and conflict over water, and adaptation to climate change. Current 'best practice' for water management is examined, addressing strategies of water supply augmentation, the ecological implications of intensified use, and strategies of demand management guided by economic or political principles. It is argued defining 'successful' water management and best practice requires first the establishment of development goals and the implicit trade-offs between water consumption and conservation. This engaging and insightful text offers a unique interdisciplinary analysis by integrating scientific, engineering, social and political perspectives. This

is an essential text for courses on development studies, geography, earth sciences and the environment.

A Course in Electrical Power - J.B. Gupta 2013

Nuclear Safety - 1985

A Textbook Of Water Power Engineering - RK Sharma | TK Sharma 2003

Including Dams Engineering, Hydrology and Fluid Power Engineering. For the student of B.E./B.Tech. Civil Engg., Institution of Engineers (India) U.P.S.C. Exam & Practising Engineers.

Teaching Engineering, Second Edition - Phillip C. Wankat 2015-01-15

The majority of professors have never had a formal course in education, and the most common method for learning how to teach is on-the-job training. This represents a challenge for disciplines with ever more complex subject matter, and a lost opportunity when new active learning approaches to education are yielding dramatic

improvements in student learning and retention. This book aims to cover all aspects of teaching engineering and other technical subjects. It presents both practical matters and educational theories in a format useful for both new and experienced teachers. It is organized to start with specific, practical teaching applications and then leads to psychological and educational theories. The "practical orientation" section explains how to develop objectives and then use them to enhance student learning, and the "theoretical orientation" section discusses the theoretical basis for learning/teaching and its impact on students. Written mainly for PhD students and professors in all areas of engineering, the book may be used as a text for graduate-level classes and professional workshops or by professionals who wish to read it on their own. Although the focus is engineering education, most of this book will be useful to teachers in other disciplines. Teaching is a complex human

activity, so it is impossible to develop a formula that guarantees it will be excellent. However, the methods in this book will help all professors become good teachers while spending less time preparing for the classroom. This is a new edition of the well-received volume published by McGraw-Hill in 1993. It includes an entirely revised section on the Accreditation Board for Engineering and Technology (ABET) and new sections on the characteristics of great teachers, different active learning methods, the application of technology in the classroom (from clickers to intelligent tutorial systems), and how people learn.

Generation of Electrical Energy, 7th Edition - Gupta B.R. 2017

Generation of Electrical Energy is written primarily for the undergraduate students of electrical engineering while also covering the syllabus of AMIE and act as a refresher for the professionals in the field. The subject itself is now rejuvenated with important

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new developments. With this in view, the book covers conventional topics like load curves, steam generation, hydro-generation parallel operation as well as new topics like new sources of energy generation, hydrothermal coordination, static reserve reliability evaluation among others.

Power System Analysis and Design - J. Duncan Glover
2011-01-03

The new edition of POWER SYSTEM ANALYSIS AND DESIGN provides students with an introduction to the basic concepts of power systems along with tools to aid them in applying these skills to real world situations. Physical concepts are highlighted while also giving necessary attention to mathematical techniques. Both theory and modeling are developed from simple beginnings so that they can be readily extended to new and complex situations. The authors incorporate new tools and material to aid students with design issues and reflect recent trends in the field.

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Advances in Automation, Signal Processing, Instrumentation, and Control - Venkata Lakshmi

Narayana Komanapalli
2021-03-04

This book presents the select proceedings of the International Conference on Automation, Signal Processing, Instrumentation and Control (i-CASIC) 2020. The book mainly focuses on emerging technologies in electrical systems, IoT-based instrumentation, advanced industrial automation, and advanced image and signal processing. It also includes studies on the analysis, design and implementation of instrumentation systems, and high-accuracy and energy-efficient controllers. The contents of this book will be useful for beginners, researchers as well as professionals interested in instrumentation and control,

and other allied fields.
Switchgear and Protection - J.
B. Gupta 2015

Tecnologías de generación de energía eléctrica -

Gilberto Enríquez 2009-10-08
El texto aborda las diferentes formas de generación de energía eléctrica, tanto las convencionales como las nuevas formas de generación, poniendo énfasis en la generación eólica, la solar, la de biomasa, las celdas de combustible y la proveniente de las mareas. En ocho capítulos se describe, con un lenguaje sencillo y claro, cada una de las tecnologías de generación, por lo que esta obra constituye un enfoque renovado y moderno del viejo tema de la generación de energía eléctrica, y hace mención especial del problema de la contaminación y su efecto en el ambiente.

An Integrated Course In Electrical Engineering (3rd Edition) - J.B. Gupta 2009

Objective Electrical Technology - Rohit Mehta

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2008

In the present edition, authors have made sincere efforts to make the book up-to-date. A notable feature is the inclusion of two chapters on Power System. It is hoped that this edition will serve the readers in a more useful way.
Technology Innovation in Mechanical Engineering - Prem Kumar Chaurasiya 2022-05-27
This book comprises select papers presented at the conference on Technology Innovation in Mechanical Engineering (TIME-2021). The book discusses the latest innovation and advanced research in the diverse field of Mechanical Engineering such as materials, manufacturing processes, evaluation of materials properties for the application in automotive, aerospace, marine, locomotive and energy sectors. The topics covered include advanced metal forming, Energy Efficient systems, Material Characterization, Advanced metal forming, bending, welding & casting techniques, Composite and Polymer

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7/15

Manufacturing, Intermetallics, Future generation materials, Laser Based Manufacturing, High-Energy Beam Processing, Nano materials, Smart Material, Super Alloys, Powder Metallurgy and Ceramic Forming, Aerodynamics, Biological Heat & Mass Transfer, Combustion & Propulsion, Cryogenics, Fire Dynamics, Refrigeration & Air Conditioning, Sensors and Transducers, Turbulent Flows, Reactive Flows, Numerical Heat Transfer, Phase Change Materials, Micro- and Nano-scale Transport, Multi-phase Flows, Nuclear & Space Applications, Flexible Manufacturing Technology & System, Non-Traditional Machining processes, Structural Strength and Robustness, Vibration, Noise Analysis and Control, Tribology. In addition, it discusses industrial applications and cover theoretical and analytical methods, numerical simulations and experimental techniques in the area of Mechanical Engineering. The

book will be helpful for academics, including graduate students and researchers, as well as professionals interested in interdisciplinary topics in the areas of materials, manufacturing, and energy sectors.

Fossil Energy Update - 1976

International Conference on Artificial Intelligence: Advances and Applications

2019 - Garima Mathur
2020-02-28

This book introduces research presented at the “International Conference on Artificial Intelligence: Advances and Applications-2019 (ICAIAA 2019),” a two-day conference and workshop bringing together leading academicians, researchers as well as students to share their experiences and findings on all aspects of engineering applications of artificial intelligence. The book covers research in the areas of artificial intelligence, machine learning, and deep learning applications in health care, agriculture, business and security. It also includes

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research in core concepts of computer networks, intelligent system design and deployment, real-time systems, WSN, sensors and sensor nodes, SDN and NFV. As such it is a valuable resource for students, academics and practitioners in industry working on AI applications.

Calcium and Chemical Looping Technology for Power Generation and Carbon Dioxide (CO₂) Capture

- Paul Fennell
2015-05-21

Calcium and Chemical Looping Technology for Power Generation and Carbon Dioxide (CO₂) Capture reviews the fundamental principles, systems, oxygen carriers, and carbon dioxide carriers relevant to chemical looping and combustion. Chapters review the market development, economics, and deployment of these systems, also providing detailed information on the variety of materials and processes that will help to shape the future of CO₂ capture ready power plants. Reviews the

fundamental principles, systems, oxygen carriers, and carbon dioxide carriers relevant to calcium and chemical looping Provides a lucid explanation of advanced concepts and developments in calcium and chemical looping, high pressure systems, and alternative CO₂ carriers Presents information on the market development, economics, and deployment of these systems

[Energy Abstracts for Policy Analysis](#) - 1987

[A Course In Power Systems](#) - J. B. Gupta 2009

[Power Generation, Operation, and Control](#) - Allen J. Wood
2012-11-07

A comprehensive text on the operation and control of power generation and transmission systems In the ten years since Allen J. Wood and Bruce F. Wollenberg presented their comprehensive introduction to the engineering and economic factors involved in operating and controlling power generation systems in electric

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utilities, the electric power industry has undergone unprecedented change. Deregulation, open access to transmission systems, and the birth of independent power producers have altered the structure of the industry, while technological advances have created a host of new opportunities and challenges. In Power Generation, Operation, and Control, Second Edition, Wood and Wollenberg bring professionals and students alike up to date on the nuts and bolts of the field. Continuing in the tradition of the first edition, they offer a practical, hands-on guide to theoretical developments and to the application of advanced operations research methods to realistic electric power engineering problems. This one-of-a-kind text also addresses the interaction between human and economic factors to prepare readers to make real-world decisions that go beyond the limits of mere technical calculations. The Second Edition features vital new material, including: * A

computer disk developed by the authors to help readers solve complicated problems * Examination of Optimal Power Flow (OPF) * Treatment of unit commitment expanded to incorporate the Lagrange relaxation technique * Introduction to the use of bounding techniques and other contingency selection methods * Applications suited to the new, deregulated systems as well as to the traditional, vertically organized utilities company Wood and Wollenberg draw upon nearly 30 years of classroom testing to provide valuable data on operations research, state estimation methods, fuel scheduling techniques, and more. Designed for clarity and ease of use, this invaluable reference prepares industry professionals and students to meet the future challenges of power generation, operation, and control.

Energy Research Abstracts - 1994

Power Plants and Power Systems Control 2006 - David

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Westwick 2007-02-06

Control plays a very important role in all aspects of power plants and power systems. The papers included in the 2006 Proceedings are by authors from a large number of countries around the world. They encompass a wide spectrum of topics in the control of practically every aspect of power plants and power systems.

Books from India - 1975

Proceedings of the 5th International Conference on Frontiers in Intelligent Computing: Theory and Applications - Suresh

Chandra Satapathy 2017-03-15
The book is a collection of high-quality peer-reviewed research papers presented at International Conference on Frontiers of Intelligent Computing: Theory and applications (FICTA 2016) held at School of Computer Engineering, KIIT University, Bhubaneswar, India during 16 - 17 September 2016. The book presents theories, methodologies, new ideas,

experiences and applications in all areas of intelligent computing and its applications to various engineering disciplines like computer science, electronics, electrical and mechanical engineering.

Applied Mechanics Reviews - 1972

Industrial Power Distribution and Illuminating Systems - Kao Chen 2020-09-23

This book covers all important elements of industrial power distribution-system planning, selection of distribution voltages and systems, and methods of fault current calculations. It also covers the illuminating engineering and design principles based on the latest concepts and approaches.

Utilisation of Electrical Power - Er. R. K. Rajput 2006

Application Guide for Power Engineers - K Rajamani 2019-01-03

"Sound earthing & grounding of the electrical installation is the fundamental requirement

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for safe and reliable operation. There is a lot of misconception among practicing engineers (both design and field) on this topic. Study of this application guide will bring clarity to the reader on this topic. Earthing methods for different applications like EHV Switchyard, MV and LV systems and earthing application to special areas like Solar farms, GIS terminations, C&I (Control & Instrumentation) systems in power and industrial plants are covered. Remarks on mis-interpretation of IE rules are made. The reader will understand why different grounding methods are adopted at different voltage levels. Relationship between Grounding and Transformer Ampere Turns Balance theory is clearly brought out which is the cornerstone of grounding exercise. Features of ungrounded and grounded systems are covered in detail including demystification of zig zag connection. Ready to use spread sheets for sizing of NGT/NGR are given. Supported

by copious illustrations from field experience, fundamental concepts of grounding are explained by solving problems of gradually increasing complexity. Various practices adopted for Neutral grounding of generator are described. Students will tremendously benefit by studying this guide as it combines theory with lot of practical examples. He/She will acquire the necessary skills upfront needed by industry. The design engineer or consultants will find the guide very useful to perform optimum design. Origin of many nuisance tripping or power quality issues is poor earthing/grounding. The practicing and field engineers will be able to address many of the problems encountered at site due to faulty earthing and grounding

Plant Engineer's Handbook - R. Keith Mobley 2001-05-14

Plant engineers are responsible for a wide range of industrial activities, and may work in any industry. This means that breadth of knowledge required by such professionals is so

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wide that previous books addressing plant engineering have either been limited to only certain subjects or cursory in their treatment of topics. The Plant Engineering Handbook offers comprehensive coverage of an enormous range of subjects which are of vital interest to the plant engineer and anyone connected with industrial operations or maintenance. This handbook is packed with indispensable information, from defining just what a Plant Engineer actually does, through selection of a suitable site for a factory and provision of basic facilities (including boilers, electrical systems, water, HVAC systems, pumping systems and floors and finishes) to issues such as lubrication, corrosion, energy conservation, maintenance and materials handling as well as environmental considerations, insurance matters and financial concerns. One of the major features of this volume is its comprehensive treatment of the maintenance management function; in addition to chapters which outline the

operation of the various plant equipment there is specialist advice on how to get the most out of that equipment and its operators. This will enable the reader to reap the rewards of more efficient operations, more effective employee contributions and in turn more profitable performance from the plant and the business to which it contributes. The Editor, Keith Mobley and the team of expert contributors, have practiced at the highest levels in leading corporations across the USA, Europe and the rest of the world. Produced in association with Plant Engineering magazine, this book will be a source of information for plant engineers in any industry worldwide. * A Flagship reference work for the Plant Engineering series * Provides comprehensive coverage on an enormous range of subjects vital to plant and industrial engineer * Includes an international perspective including dual units and regulations
Engineering Separations Unit Operations for Nuclear

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Processing - Reid Peterson

2019-11-15

Engineering Separations Unit Operations for Nuclear Processing provides insight into the fundamentals of separations in nuclear materials processing not covered in typical texts. This book integrates fuel cycle and waste processing into a single, coherent approach, demonstrating that the principles from one field can and should be applied to the other. It provides historical perspectives on nuclear materials processing, current assessment and challenges, and how past challenges were overcome. It also provides understanding of the engineering principles associated with handling nuclear materials. This book is aimed at researchers, graduate students, and professionals in the fields of chemical engineering, mechanical engineering, nuclear engineering, and materials engineering.

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,

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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.

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.