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Power Plant Engineering-P. K. Nag 2002

A Course in Power Plant Engineering- Subhash C. Arora 1984

A Course in Power Plant Engineering-S. C. Arora 1996

Power Plant Engineering-Hegde 2015 Information on contemporary topics in power plant technology such as super critical boiler technology Practical approach to delineate complex topics with visual aids and representational schemes Exhaustive coverage of power generation from non-conventional sources of energy Ample solved examples, multiple-choice and exercise questions for practice.

A Course in Power Plant Engineering-Subhash C. Arora 1978

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.

A First Course on Electrical Drives-S. K. Pillai 1989 The Aim Of Revision Is Mainly To Acquaint The Students With The Recent Trends In The Development Of Electric Motors Used As Prime Movers In Electric Drive Systems. The Chapter On Introduction To Solid State Controlled Drives Has Been Expanded To Include Sections On Increasingly Used *Brushless Dcmotors And Switched-Reluctance Motors* A Separate Chapter On The More Commonly Used Position Control Drive Motors, Namely, Stepper Motors Has Been Also Incorporated. The Drives Used In The Fast Growing Petroleum Industry Have Been Included In The Chapter On Industrial Applications.

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.

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, Analyzes 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

Pow Plant Engg-P. K. Nag 2008-08-07 Meant for the undergraduate course on Power Plant Engineering studied by the mechanical engineering students, this book is a comprehensive and up-to-date offering on the subject. It has detailed coverage on hydro-electric, diesel engine and gas turbine power plants. Plenty of solved examples, exercise questions and illustrations make this a very student friendly text.

Power Plant Engineering-P. C. Sharma 2009


Power Plant Engineering- 1921

Power Plant Engineering-G. R. Nagpal 2008
Power Plant Engineering - C. Elanchezian 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 hydroelectric power plants. It also covers 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 learning skills of the student.

Heat Power - K.C. Pai This is a textbook for students of Mechanical Engineering in polytechnics. It covers the syllabus in Thermal Engineering papers for two semesters. It is also suitable for engineering degree students (other than those in Mechanical Engineering). The book has used SI units. Diagrams and charts supplement the text.


PRACTICAL BOILER OPERATION ENGINEERING AND POWER PLANT, FOURTH EDITION - MALLICK, AMIYA RANJAN 2015-08-31 The fourth edition of the book is richer in contents presenting updated information on the fundamental aspects of various processes related to thermal power plants. The major thrust in the book is given on the hands-on procedure to deal with the normal and emergency situations during plant operation. Beginning from the fundamentals, the book explores the vast concepts of boilers, steam turbines and other auxiliary systems. Following a simple text format and easy-to-grasp language, the book explicates various real-life situation-related topics involving operation, commissioning, maintenance, electrical and instrumentation of a power plant. NEW TO THE FOURTH EDITION • The text now incorporates a new chapter on Environmental and Safety Aspects of Thermal Power Plants. • New sections on Softener, Water Treatment of Supercritical Boiler, Wet Mode and Dry Mode Operation of Supercritical Boiler, Electromagnetic Pressure Relief Valve, Pressure Reducing and Desuperheating (PRDS) System, Orsat Apparatus, and Safety Interlocks and Auto Control Logics in Boiler have been added in related chapters. • Several sections have been updated to provide the reader with the latest information. • A new appendix on Important Information on Power Generation has been incorporated into the text. Dealing with all the latest coverage, the book is written to address the requirements of the undergraduate students of power plant engineering. Besides this, the text would also cater to the needs of those candidates who are preparing for Boiler Operating Engineers (BOE) Examination and the undergraduate/postgraduate students who are pursuing courses in various power training institutes. The book will also be of immense use to the students of postgraduate diploma course in thermal power plant engineering. KEY FEATURES • Covers almost all the functional areas of thermal power plants in its systematically arranged topics. • Incorporates more than 500 self-test questions in chapter-end exercises to test the student’s grasp of the fundamental concepts and BOE Examination preparation. • Involves numerous well-labelled diagrams throughout the book leading to easy learning. • Provides several solved numerical problems that generally arise during the functioning of thermal power plants.

Powerplant Technology - M.M. El-Wakil 1985-01 This text is designed for courses in powerplant technology, powerplant engineering, and energy conversion offered in departments of mechanical engineering and nuclear engineering. It is also suitable as a supplement to courses in energy analysis offered in mechanical or nuclear engineering departments or energy analysis programs. It covers fossil, nuclear and renewable-energy powerplants with equal emphasis, giving students a complete and detailed understanding of the entire spectrum of power generation systems.

Course In Heat & Mass Transfer - Domkundwar 2005-01

Geothermal Power Plants - Ronald DiPippo 2011-04-08 Ron DiPippo, Professor Emeritus at the University of Massachusetts Dartmouth, is a world-regarded geothermal expert. This single resource covers all aspects of the utilization of geothermal energy for power generation from fundamental scientific and engineering principles. The thermodynamic basis for the design of geothermal power plants is at the heart of the book and readers are clearly guided on the process of designing and analysing the key types of geothermal energy conversion systems. Its practical emphasis is enhanced by the use of case studies from real plants that increase the reader's understanding of geothermal energy conversion and provide a unique compilation of hard-to-obtain data and experience. An important new chapter covers Environmental Impact and Abatement Technologies, including greenhouse gas emissions, carbon capture and storage; land usage; disturbance of natural hydrothermal manifestations; habitats and vegetation; minimisation of CO2 emissions and environmental impact assessment.

The book is illustrated with over 240 photographs and drawings. Nine chapters include practice problems, with solutions, which enable the book to be used as a course text. Also includes a definitive worldwide compilation of every geothermal power plant that has been operated, a concise primer on the applicable thermodynamics. * Engineering principles are at the heart of the book, with complete coverage of the thermodynamic basis for the design of geothermal power systems * Practical applications are backed up by an extensive selection of case studies that show how geothermal energy conversion systems have been designed, applied and exploited in practice * World renowned geothermal expert DiPippo has including a new chapter on Environmental Impact and Abatement Technology in this new edition

22nd European Symposium on Computer Aided Process Engineering - Ian David Lockhart Bogle 2012

Computer aided process engineering (CAPE) plays a key design and operations role in the process industries. This conference features presentations by CAPE specialists and addresses strategic planning, supply chain issues and the increasingly important area of sustainability audits. Experts collectively highlight the need for CAPE practitioners to embrace the three components of sustainable development: environmental, social and economic progress and the role of systematic and sophisticated CAPE tools in delivering these goals.

Thermal Engineering - R.K. Rajput 2005

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.


Electricity Generation Using Wind Power (Second Edition) - Shepherd William 2017-01-05 Is wind power the answer to our energy supply problems? Is there enough wind for everyone? Is offshore generation better than...
onshore generation? Can a roof-mounted wind turbine generate enough electricity to supply a typical domestic household? Electricity Generation Using Wind Power (2nd Edition) answers these pressing questions through its detailed coverage of the different types of electrical generator machines used, as well as the power electronic converter technologies and control principles employed. Also covered is the integration of wind farms into established electricity grid systems, plus environmental and economic aspects of wind generation. Written for technically minded readers, especially electrical engineers concerned with the possible use of wind power for generating electricity, it incorporates some global meteorological and geographical features of wind supply plus a survey of past and present wind turbines. Included is a technical assessment of the choice of turbine sites. The principles and analysis of wind power conversion, transmission and efficiency evaluation are described. This book includes worked numerical examples in some chapters, plus end of chapter problems and review questions, with answers. As a textbook it is pitched at the level of final year undergraduate engineering study but may also be useful as a textbook or reference for wider technical studies.

Advances in Manufacturing and Industrial Engineering—Ranganath M. Singari 2021-01-13 This book presents selected peer reviewed papers from the International Conference on Advanced Production and Industrial Engineering (ICAPIE 2019). It covers a wide range of topics and latest research in mechanical systems engineering, materials engineering, micro-machining, renewable energy, industrial and production engineering, and additive manufacturing. Given the range of topics discussed, this book will be useful for students and researchers primarily working in mechanical and industrial engineering, and energy technologies.

Introduction to Optimum Design—Jasbir Arora 2011-08-12 Introduction to Optimum Design, Third Edition describes an organized approach to engineering design optimization in a rigorous yet simplified manner. It illustrates various concepts and procedures with simple examples and demonstrates their applicability to engineering design problems. Formulation of a design problem as an optimization problem is emphasized and illustrated throughout the text. Excel and MATLAB® are featured as learning and teaching aids. Basic concepts of optimality conditions and numerical methods are described with simple and practical examples, making the material highly teachable and learnable. Includes applications of optimization methods for structural, mechanical, aerospace, and industrial engineering problems. Introduction to MATLAB Optimization Toolbox Practical design examples introduce students to the use of optimization methods early in the book. New example problems throughout the text are enhanced with detailed illustrations. Optimum Design with Excel Solver has been expanded into a full chapter. New Chapter on several advanced optimum design topics serves the needs of instructors who teach more advanced courses.

Internal Combustion Engines—Ganesan 2004

The Maritime Engineering Reference Book—Anthony F. Molland 2011-10-13 The Maritime Engineering Reference Book is a one-stop source for engineers involved in marine engineering and naval architecture. In this essential reference, Anthony F. Molland has brought together the work of a number of the world’s leading writers in the field to create an inclusive volume for a wide audience of marine engineers, naval architects and those involved in marine operations, insurance and other related fields. Coverage ranges from the basics to more advanced topics in ship design, construction and operation. All the key areas are covered, including ship flotation and stability, ship structures, propulsion, seakeeping and maneuvering. The marine environment and maritime safety of past and present wind turbines. As a technical assessment of the choice of turbine sites, the vehicles (ROVs). Facts, figures and data from world-leading experts makes this an invaluable ready-reference for those involved in marine operations, insurance and other related fields. Coverage ranges from the basics to more advanced topics in ship design, construction and operation. All the key areas are covered, including ship flotation and stability, ship structures, propulsion, seakeeping and maneuvering. The marine environment and maritime

Renewable Energy Technologies and Resources—Nader Anani 2019-11-30 This exciting new resource presents comprehensive coverage of renewable energy technologies and resources. The book focuses on solar photovoltaic (PV), solar thermal, wind, hydro and tidal energy technologies, and describes the scientific principles and physical systems used for the harvesting and harnessing of these resources. The environmental and economic impacts of renewable energy models, this book provides concise, practical solutions that will appeal to both student and professional practitioners.

A Textbook of Fluid Mechanics and Hydraulic Machines—K. Bansal 2004-12-31

Manpower Development for Nuclear Power—International Atomic Energy Agency 1980

Books India—1975

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 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 present a cutting-edge text that is up-to-date and students aided by data and charts 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 teaching to provide valuable and instructive insights into the economic and regulatory context for decisions. The authors present a logical progression of topics, 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.


Steam Turbines for Modern Fossil-Fuel Power Plants—Alexander S. Leyzerovich 2021-01-18 Presenting the newest approaches to the design and operation of steam turbines, this book also explores modern techniques for
refurbishment of aging units. It covers recent engineering breakthroughs and new approaches to transient operating conditions, as well as improved information support for operational personnel. An authoritative guide for power plant engineers, operators, owners and designers on all of these crucial developments, this book fully describes and evaluates the most important new design and operational improvement opportunities for the full spectrum of today’s steam turbines – from the newest and most advanced to the more common existing systems.

**Books from India - 1975**

**Microbial Biotechnology** - Rajesh Arora 2012 Human actions across the past few centuries have led to a depletion of the world’s natural energy sources, as well as large scale environmental degradation. In the context of these current global issues, this book covers the latest research on the application and use of microbes in topical areas such as bioremediation and biofuels. With chapters covering environmental clean-up, microbial fuel cells and biogas, it provides a comprehensive discussion of the latest developments in the field of microbe utilization.