



Fifth Edition

A TEXTBOOK OF

POWER PLANT ENGINEERING

Er. R.K. Rajput



Power Plant Engineering By R K Rajput

Shyam K. Agrawal



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Power System Engineering R. K. Rajput, 2006 POWER PLANT ENGINEERING GUPTA, MANOJ KUMAR, 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 R. K. Rajput, 2011 **A textbook of power plant engineering** R. K. Rajput, 2008

Fundamentals of Power Plant Engineering R. Yadav, Sanjay, Rajay, 2022-03-31. The purpose of this book is to present a thorough treatment of Fundamental of Power Plant Engineering. Conventional and Non Conventional Renewal from working design applications, operations, control and maintenance point of view. This book covers the syllabus of all universities and abroad. The book is also highly suitable for all competitive examinations like civil services, engineering services and PSUs of central and state governments. *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.

Objective Type Questions in Mechanical Engineering Singh V.P./ Pratap Raveesh & Akhai Shalom, Useful book for GATE, IES, UPSC, PSUs and other competitive examinations. Latest objective type questions with answers. About 5000 objective type questions. **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.

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Electrical and Mechanical Technology (For Universities of Andhra Pradesh) Pilla Ramana/ Mary, Kralapudy Alice/ Jajimoggala Sarojini & Shabana, This book is designed for under graduate students of all branches those who are going to study Electrical and Mechanical Technology as one of the subject in their curriculum The primary goal of this book is to establish a firm understanding of basic knowledge on DC Machines Single Phase Transformers Three Phase Induction Motors Alternators Measuring Instruments Energy Sources Internal Combustion Engines Heat transfer Power transmission and Manufacturing methods The contents of this book are presented in a simple way for easy understanding and can be used as self study material

Basic Mechanical Engineering Dharmendra Singh, Chandra Shekhar Rajoria, 2025-06-01
Engineering Thermodynamics M. Kassim, 2022-03-29 No detailed description available for Engineering Thermodynamics *Directory*, 1986

A Textbook of Power Plant Engineering in SI Units R. K. Rajput, 2001

Proceedings, 2008 **Handbook of Universities**, 2006 **Bulletin of the Institution of Engineers (India)**. Institution of Engineers (India), 1971

Applied Thermosciences Shyam K. Agrawal, 2004 Applied Thermosciences is designed as a complete course text in mechanical energy aeronautical and environmental engineering The text is comprehensive in its coverage lays special stress on the basic concepts the approach is systematic and logical and emphasis throughout is placed on the application of the theory to real processes Thermodynamics of fluid flow principles of refrigeration air conditioning heat transfer and harnessing solar energy has been discussed because they form an important constituent of applied thermosciences

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