

Fifth Edition

A TEXTBOOK OF

# POWER PLANT ENGINEERING



Er. R.K. Rajput

# Power Plant Engineering Khurmi

**Pilla Ramana/ Mary, Kralapudy Alice/  
Jajimoggala Sarojini & Shabana**

## **Power Plant Engineering Khurmi:**

**A Textbook of Thermal Engineering** RS Khurmi | JK Gupta, 2008 Two new chapters on general Thermodynamic Relations and Variable Specific Heat have been Added The mistake which had crept in have been eliminated we wish to express our sincere thanks to numerous professors and students both at home and abroad for sending their valuable suggestions and also for recommending the book to their students and friends

**Power Plant Engineering** P. K. Nag, 2002

**Power Plant Engineering** Dr. S. Suyambazhahan, *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 (WBSCTE)* Samsher Gautam, This book has been specially tailored for the student of WBSCTE It covers a wide spectrum of power generation techniques Generating power is a complex affair Thus special care has been taken to present the subject matter in this book so that the students are able to comprehend this complex subject easily

**KEY FEATURES** Exhaustive coverage in accordance with the updated syllabus of WBSCTE Equal emphasis on theoretical concepts and practical applications Discusses latest topics in the areas of conventional and non conventional power plants Discusses economics of power generation like determination of cost of power generation plant capacity factor and plant use factor Every chapter has a Summary Review questions Solved examples and MCQs

**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

**APPLIED THERMODYNAMICS** R. Yadav, 2024-04-01 Applied Thermodynamics deals with engineering systems and devices which are designed using the laws and principles of basic engineering thermodynamics and deliver power output pressure rise kinetic energy rise thrust cooling and heating effects depending upon the use of systems and devices under operation Starting with review of basic engineering thermodynamics the book goes on to discuss steam generators including draft needed and

performance steam engines internal combustion engines and their testing and performance positive displacement and dynamic compressors nozzles and diffusers steam turbines condensers and cooling towers gas turbines and their components jet propulsion lubrication nuclear engineering and combined co generation and mixed cycle power plants The book is suitable as Text for B E B Tech of Mechanical Production and Aeronautical Engineering students appearing in university UPSC and GATE examinations

**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

**Power Plant Engineering** G. R. Nagpal, G R, 2008 *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

**Power Plant Engineering** Larry Drbal, Kayla Westra, Pat Boston, 1995-12-31 [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 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

**Advances in Manufacturing and Industrial Engineering** Ranganath M. Singari, Kaliyan Mathiyazhagan, Harish Kumar, 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

**Fundamentals of Power Plant Engineering** George Edward Remp,1949     *Power Plant Engineering* Black,1998-06-01     **First International Conference, Renewable Energy, 6-8 October 2004, New Delhi, India** ,2004 Contributed articles presented at the Conference     **Power Plant Engineering** Mahesh Varma,1976     **Electric Power Plant Engineering** Joshua Weingreen,1910     Power Plant Engineering (PB) Black; Veatch,2005-02

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