



POWER PLANT ENGINEERING

About the Book

Power Plant Engineering is a comprehensive textbook meant for students of BE/B.Tech (Mechanical Engineering, Mechanical & Automation Engineering, Electrical Engineering, Electrical & Electronics Engineering). This book is also useful for students preparing for AMIE, GATE, UPSC (engineering services).

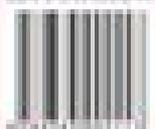
The book covers complete syllabus prescribed by AICTE model curriculum 2018, various universities, institutes, NITs etc. It contains large number of solved numerical problems, diagrams, tables etc., for easy comprehension. Various pedagogical features such as chapter summary, list of formulae, essay type questions, numerical problems and short answer type questions are provided for practice and understanding. A multiple choice question bank is also provided at the end of the book to prepare for competitive exams. It covers syllabus of subjects viz. power station practice, electrical power generation, energy sources, energy technology etc. It is written by a power generation engineer turned academician and complete matter is class tested.

About the Author



Prof. (Dr.) Tanmoy Deb graduated in electrical engineering from NIT, Surat with distinction and gold medal. He did M.Tech (Power Systems & Drives), M.Tech (Control & Instrumentation), MBA and M.Phil (Management). He was awarded Ph.D. in electrical engineering by Jamia Millia Islamia (central university). He has authored 4 textbooks and 15 research publications. He is member of 12 professional societies and was honorary secretary (Delhi chapter) of Indian Institution of Industrial Engineers for two consecutive terms (2006-07 & 2007-08). He has 32 years of experience in academia and industry. He was awarded silver medal in Whirlpool of India by Managing Director (south east Asia). His industrial stint includes 18 years in Tata and multinational companies in power generation.

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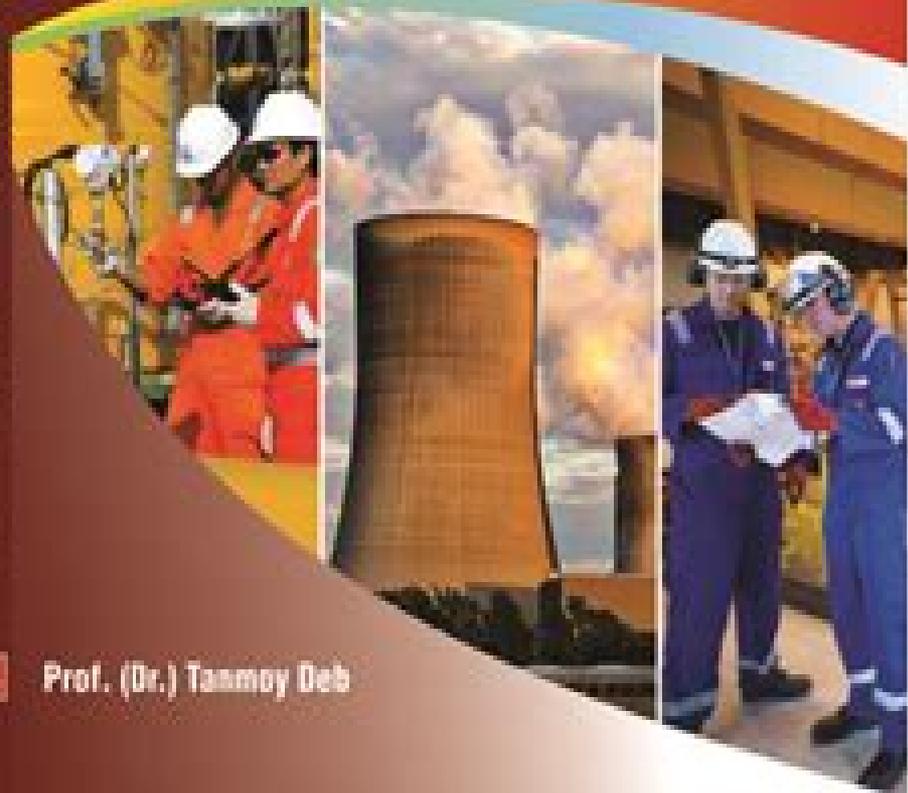
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POWER PLANT ENGINEERING

Prof. (Dr.) Tanmoy Deb

POWER PLANT ENGINEERING

(Electrical Power Generation, Power Station Practice)



Prof. (Dr.) Tanmoy Deb

Power Plant Engineering Khurmi Gupta

**Pilla Ramana/ Mary, Kralapudy Alice/
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Power Plant Engineering Khurmi Gupta:

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. 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.

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.

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 a 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 *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 *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 **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 *Power Plant Engineering* Dr. S. Suyambazhahan, *Engineering Materials* RK Rajput, 2000-09-30 The book has been thoroughly revised Several new articles have been added specifically in chapters in mortar Concrete Paint Varnishes Distempers and Antitermite treatment to make the book to still more comprehensive and a useful unit for the students preparing for the examination in the subject **Power Plant Engineering** G. R. Nagpal, G R, 2008 *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 **Indian Books in Print**, 2003

Emerging Technologies in Agricultural Engineering Megh R. Goyal, 2017-09-01 This book covers an array of issues on emerging agricultural engineering and technology featuring new research and studies The volume is broken into three parts emerging technologies energy management in agriculture and management of natural resources in which particular attention is paid to water management a necessary consideration for successful crop production especially in water scarce regions Topics include alleviating drainage congestion solar energy for agriculture anaerobic digestion by inoculation with

compost self propelled inter cultivators agrobiodiversity watershed development and management This volume offers academia engineers technologists students and others from different disciplines information to gain knowledge on the breadth and depth of this multifaceted field of agricultural engineering There is an urgent need to explore and investigate the current shortcomings and challenges of the current innovations and challenges **Power Plant Engineering** Mahesh Varma,1976 *Indian Book Industry* ,1985 A Textbook of Thermal Engineering RS Khurmi | JK Gupta,2008 Two new chapters on eneral Themodynamic Relations and Variable Specific Heat have been Added The mistake which had crept in have been elimated 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 **International Books in Print** ,1997 **Indian Books** ,1970 **Publisher's Monthly** ,2006 **Power Plant Engineering** Mahesh Varma,1983

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Table of Contents Power Plant Engineering Khurmi Gupta

1. Understanding the eBook Power Plant Engineering Khurmi Gupta
 - The Rise of Digital Reading Power Plant Engineering Khurmi Gupta
 - Advantages of eBooks Over Traditional Books
2. Identifying Power Plant Engineering Khurmi Gupta
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Power Plant Engineering Khurmi Gupta
 - User-Friendly Interface
4. Exploring eBook Recommendations from Power Plant Engineering Khurmi Gupta
 - Personalized Recommendations
 - Power Plant Engineering Khurmi Gupta User Reviews and Ratings
 - Power Plant Engineering Khurmi Gupta and Bestseller Lists
5. Accessing Power Plant Engineering Khurmi Gupta Free and Paid eBooks
 - Power Plant Engineering Khurmi Gupta Public Domain eBooks
 - Power Plant Engineering Khurmi Gupta eBook Subscription Services
 - Power Plant Engineering Khurmi Gupta Budget-Friendly Options
6. Navigating Power Plant Engineering Khurmi Gupta eBook Formats

- ePub, PDF, MOBI, and More
 - Power Plant Engineering Khurmi Gupta Compatibility with Devices
 - Power Plant Engineering Khurmi Gupta Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Power Plant Engineering Khurmi Gupta
 - Highlighting and Note-Taking Power Plant Engineering Khurmi Gupta
 - Interactive Elements Power Plant Engineering Khurmi Gupta
 8. Staying Engaged with Power Plant Engineering Khurmi Gupta
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Power Plant Engineering Khurmi Gupta
 9. Balancing eBooks and Physical Books Power Plant Engineering Khurmi Gupta
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Power Plant Engineering Khurmi Gupta
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Power Plant Engineering Khurmi Gupta
 - Setting Reading Goals Power Plant Engineering Khurmi Gupta
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Power Plant Engineering Khurmi Gupta
 - Fact-Checking eBook Content of Power Plant Engineering Khurmi Gupta
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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