

Power Plant Engineering Text Book

A textbook of power plant engineering
A Text Book of Power Plant Engineering
POWER PLANT ENGINEERING
Power Plant Engineering and Design
Power Plant Engineering
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THERMAL POWER PLANT AND CO-GENERATION PLANNING -Volume II
Power Plant Engineering
Thermal Power Plants - Volume I
Fossil Energy Update
Power Plant Engineering and Design. A Text ... Covering the Theory and Practice of Stationary Electric Generating Plants. [With Illustrations.]
Plant Engineering
The Plant Engineer
Energy Research Abstracts
Power Plant Engineering
Power Plant Engineering
Power System Engineering
Power Plant Engineering
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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

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

these volumes are a component of encyclopedia of water sciences engineering and technology resources in the global encyclopedia of life support systems eolss which is an integrated compendium of twenty one encyclopedias these volumes discuss on large scale power production which requires the use of heat in a thermodynamic cycle to produce mechanical work which in turn can generate electrical energy substantial quantities of fuel are hence required to sustain the production of heat fuel may be combustible as in the case of fossil fuels such as coal and oil or fissionable as in the case of nuclear fuels such as uranium all fuels produce waste products which must be discharged dumped or stored such products range from

innocuous water vapor to hazardous nuclear waste these volumes are aimed at the following five major target audiences university and college students educators professional practitioners research personnel and policy and decision makers

this book has been derived from the work of several professors in the nuclear and power industry all of whom have been directly involved with the industry as managers or consultants the text has been written as educational material and many of the individual chapters have been written as course material for advanced university courses also several chapters include material related to plant operation which is prescribed for operator training hence it bridges the gap between academic study and practical training while it is not intended to be comprehensive in all respects it does provide an overview of the topic with sufficient technical depth for a general understanding of power plant technology and a basis for further study in a particular area when used as a reference in this way each chapter can stand alone and be read independently of the others overall it meets the general philosophy of eolss in providing a source of knowledge for sustainable development and technological progress for educators and decision makers

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

power plant engineering has been designed for the students of b e b tech mechanical engineering divided in five units it will also prove to be a valuable source for practicing engineers and teachers it provides all the necessary information about power plants and steam power plant nuclear and hydel power plants diesel and gas turbine power plants geothermal plants ocean thermal plants tidal power plants solar power plants and economics of various power plants key features each chapter is accomplished with solved problems text has been supplemented with illustrated diagrams tables flow charts and graphs wherever required for clear understanding of students summary at the end of each chapter helps students to review literature presented in the chapter review questions and exercise problems have been designed to enhance the engineering skills of students

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