

Modern Power Station Practice

The introduction of new 500 MW and 660 MW turbine generator plant in nuclear, coal- and oil-fired power stations has been partly responsible for the increase in generating capacity of the CEGB over the last 30 years. This volume provides a detailed account of experience gained in the development, design, manufacture, operation and testing of large turbine-generators in the last 20 years. With the advance in analytical and computational techniques, the application of this experience to future design and operation of large turbine-generator plant will be of great value to engineers in the industry.

System operation. Vol. L.

Modern Power Station Practice: Instrumentation, controls and testing

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Incorporating Modern Power System Practice. C

Nuclear power generation has undergone major expansion and developments in recent years; this third edition contains much revised material in presenting the state-of-the-art of nuclear power station designs currently in operation throughout the world. The volume covers nuclear physics and basic technology, nuclear station design, nuclear station operation, and nuclear safety. Each chapter is independent but with the necessary technical overlap to provide a complete work on the safe and economic design and operation of nuclear power stations.

Index. M.

Modern Power Station Practice

Nuclear power generation. 8

Incorporating Modern Power System Practice

Electrical (Generator and Electrical Plant), Volume 4 is a five-chapter text that covers the principles, design, manufacture, characteristics, and maintenance of generators and electrical plant equipment. Chapter 1 deals with the design, construction, and operational aspects of large turbo-generators of up to 500 MW rating. Chapter 2 summarizes the practices in respect of main switchgear and ancillary equipment for generating stations. Chapter 3 looks into the main parameters of the electrical auxiliary system design and the details of the switchgear, motors, and associated equipment. Chapter 4 describes the construction and assembly, design, operation, and maintenance of transformers. This chapter also covers the development of power cables for transformers, installation, and commissioning tests. Chapter 5 examines the role of protection in system design and the principles and operation of automatic voltage regulators. This book is of great value to workers and students who are interested in the design and operation of electrical plant equipment.

Modern Power Station Practice, 3E, 12 Vol. Set (Hb)

Incorporating Modern Power System Practice. Index. Vol. M

Incorporating Modern Power Station Practice

Incorporating Modern Power System Practice. Nuclear power generation. Vol. J

Boilers and Ancillary Plant reflects the cumulation of experience gained in the design, manufacture and operation of large coal- and oil-fired boilers in the last 20 years. The introduction of 500 MW boilers was not without its problems and this led to the analysis of boiler plant in all its aspects - combustion, furnace heat transfer, the design of superheaters and reheaters operating in the creep range, boiler tube corrosion and its interaction with creep life, the control of slagging and fouling and the maintenance of boiler efficiency. This volume thus presents a review of modern practice in the design and operation of large boiler plant covering all aspects including the characteristics and selection of

major auxiliaries and the control of gaseous and particulate emissions.

Modern Power Station Practice: Nuclear power generation

Modern Power Station Practice: Chemistry and metallurgy

Modern power station practice

Incorporating Modern Power System Practice. : System Operation. L

This volume contains two additional features which enhance the value of Modern Power Station Practice as a whole: a cumulative subject index and a detailed list of tables of contents for the entire work. The cumulative index provides access to the vast body of information presented in the set, and also indicates at a glance the breadth and depth of the treatment through the use of inclusive page ranges for major topics. In order to allow the reader the greatest flexibility in using the index there are many cross-re

two descriptive subheadings to allow the most detailed coverage possible of the subject matter. The reproduction of the tables of contents for each volume also provides an overview of the organisation of the individual volumes.

Incorporating Modern Power System Practice. : Station Planning and Design. A

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Nuclear Power Generation