

Electrical Power Engineering Reference Applications Handbook

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The content of the book is GREAT! This book is one of the best reference books in my electrical power engineering library. It covers almost all of the areas of electrical power engineering that haven't been updated since the Westinghouse T&D book was published in 1965.

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Engineering is the use of scientific principles to design and build machines, structures, and other items, including bridges, tunnels, roads, vehicles, and buildings. The discipline of engineering encompasses a broad range of more specialized fields of engineering, each with a more specific emphasis on particular areas of applied mathematics, applied science, and types of application.

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Electrical Power Engineering - Reference & Applications Handbook is a single source of all information needs in the subject area of power engineering. It aims at bridging the gap between concept and application. The book acts as a handy reference to all those in the field of design and application, protection and testing, production, project implementation or maintenance, in addition to the sales and purchase of these projects. The book is divided in 5 parts: Electric Motors, Drives and Energy Saving Switchgear Assemblies and Captive (Emergency) Power Generation Voltage Surges, Over-voltages, Circuit Interrupters and Grounding Practices Power Capacitors and Reactive Power Controls Busbar Systems

A valuable introduction to key concepts in electric power engineering for both entry-level and seasoned professionals. Table of Contents: 1. Energy Sources and Electric Power; 2. Magnetic Fields and Magnetic Circuits; 3. The Power Transformer; 4. Synchronous Machines; 5. D.C. Machines; 6. Induction Machines; 7. The Electric Power System Network; Appendix: Complex Numbers, Phasors, Impedances, and Polyphase Circuits. 200 illustrations.

The second edition of this popular engineering reference book, previously titles Newnes Electrical Engineer ' s Handbook, provides a basic understanding of the underlying theory and operation of the major classes of electrical equipment. With coverage including the key principles of electrical engineering and the design and operation of electrical equipment, the book uses clear descriptions and logical presentation of data to explain electrical power and its applications. Each chapter is written by leading professionals and academics, and many sections conclude with a summary of key standards. The new edition is updated in line with recent advances in EMC, power quality and the structure and operation of power systems, making Newnes Electrical Power Engineer ' s Handbook an invaluable guide for today ' s electrical power engineer. · A unique, concise reference book with contributions from eminent professionals in the field · Provides straightforward and practical explanations, plus key information needed by engineers on a day-to-day basis · Includes a summary of key standards at the end of each chapter

The second edition of a bestseller, this definitive text covers all aspects of testing and maintenance of the equipment found in electrical power systems serving industrial, commercial, utility substations, and generating plants. It addresses practical aspects of routing testing and maintenance and presents both the methodologies and engineering basics needed to carry out these tasks. It is an essential reference for engineers and technicians responsible for the operation, maintenance, and testing of power system equipment. Comprehensive coverage includes dielectric theory, dissolved gas analysis, cable fault locating, ground resistance measurements, and power factor, dissipation factor, DC, breaker, and relay testing methods.

"Covering virtually all areas of distribution engineering, this complete reference work examines the unique behavior of utilities and provides the practical knowledge necessary to solve real-world distribution problems. "

Decision Making Applications in Modern Power Systems presents an enhanced decision-making framework for power systems. Designed as an introduction to enhanced electricity system analysis using decision-making tools, it provides an overview of the different elements, levels and actors involved within an integrated framework for decision-making in the power sector. In addition, it presents a state-of-play on current energy systems, strategies, alternatives, viewpoints and priorities in support of decision-making in the electric power sector, including discussions of energy storage and smart grids. As a practical training guide on theoretical developments and the application of advanced methods for practical electrical energy engineering problems, this reference is ideal for use in establishing medium-term and long-term strategic plans for the electric power and energy sectors. Provides panoramic coverage of state-of-the-art energy systems, strategies and priorities in support of electrical power decision-making Introduces innovative research outcomes, programs, algorithms and approaches to address challenges in understanding, creating and managing complex techno-socio-economic engineering systems Includes practical training on theoretical developments and the application of advanced methods for realistic electrical energy engineering problems

Covering the fundamental theory of electric power transformers, this book provides the background required to understand the basic operation of electromagnetic induction as applied to transformers. The book is divided into three fundamental groupings: one stand-alone chapter is devoted to Theory and Principles, nine chapters individually treat major transformer types, and fourteen chapters cover many ancillary topics associated with power transformers. Throughout the book, tables, charts, photographs, and equations describe the operation and performance of power transformers and facilitate the reader's understanding of the technical material.

Dr. Dunsheath has spent a long and full life as an electrical engineer, starting as an apprentice and finishing in the Board Room. He is also a Past President of the Institution of Electrical Engineers and of the International Electrotechnical Commission, so is well qualified to write this history, the first of its kind. It traces the subject from man's earliest recorded encounters with magnetism (with quotations from the ancient sources) right up to the present day. Apart from the full and authoritative accounts of the various developments in this field from a historical point of view, the book is enlivened and enriched by reference to the social context of the various discoveries and to the lives and characters of the men who made them. Morse, for example, was initially an artist and sculptor with an international reputation. And the electrical discoveries of Benjamin Franklin were subject to considerable disparagement because he was on the "wrong" side during the American War of Independence. The book as a whole should provide the student or general reader with much food for thought about the relation of the specialist to the life of the community as a whole, and copious references are provided for anyone who wishes to explore any particular subject further.

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