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Electrical Power Engineering: Reference & Applications ...

Oct 08, 2001 · Industrial Power Engineering Handbook (Newnes Power Engineering Series) is a book that has been authored by K C Agarwal. The book extensively covers relevant concepts in a single volume. This work has five parts and is of a great value for technicians, students, engineers, equipment manufacturers and designers.

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The modernization of industrial power systems has been stifled by industry's acceptance of extremely outdated practices. Industry is hesitant to depart from power system design practices influenced by the economic concerns and technology of the post World War II period. In order to break free of outdated techniques and ensure product quality and continuity of operations, engineers must apply novel techniques to plan, design, and implement electrical power systems. Based on the author's 40 years of experience in Industry, Industrial Power Systems illustrates the importance of reliable power systems and provides engineers the tools to plan, design, and implement one. Using materials from IEEE courses developed for practicing engineers, the book covers relevant engineering features and modern design procedures, including power system studies, grounding, instrument transformers, and medium-voltage motors. The author provides a number of practical tables, including IEEE and European standards, and design principles for industrial applications. Long overdue, Industrial Power Systems provides power engineers with a blueprint for designing electrical systems that will provide continuously available electric power at the

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quality and quantity needed to maintain operations and standards of production.

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

From traditional topics that form the core of industrial electronics, to new and emerging concepts and technologies, The Industrial Electronics Handbook, in a single volume, has the field covered. Nowhere else will you find so much information on so many major topics in the field. For facts you need every day, and for discussions on topics you have only dreamed of, The Industrial Electronics Handbook is an ideal reference.

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This new edition of Industrial Power Distribution addresses key areas of electric power distribution from an end-user perspective, which will serve industry professionals and students develop the necessary skills for the power engineering field. Expanded treatment of one-line diagrams, the per-unit system, complex power, transformer connections, and motor applications New topics in this edition include lighting systems and arc flash hazard Concept of AC Power is developed step by step from the basic definition of power Fourier analysis is described in a graphical sense End-of-chapter exercises If you are an instructor and adopted this book for your course, please email ieeeproposals@wiley.com to get access to the instructor files for this book.

A complete guide, this book presents industrial microwave heating from an engineering base and integrating the essential elements of microwave theory and heat transfer with practical design, application and operational issues.

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