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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

Industrial use of the brushless servomotor, for instance in robotics, is increasing rapidly, because of their low maintenance needs and capabilities at high transient speeds. They offer flexibility and high performance, and advances in power electronics and microelectronics means they are now more affordable. This handbook gives the user of brushless servomotors a comprehensive guide to their use, including a description of all main features of the brushless motor drive system. Throughout mathematics is kept to a minimum and practical guidance is given based on real-life experience. Peter Moreton is a Research Fellow at the University of Bristol, having spent time in industry and universities worldwide. Written by a respected expert in the field - Peter Moreton has both high level academic and industrial experience

Indispensable guide to a rapidly growing new area of technology Concise and accessible with a minimum of maths

The protection which is installed on an industrial power system is likely to be subjected to more difficult conditions than the protection on any other kind of power system. Starting with the many simple devices which are employed and covering the whole area of industrial power system protection, this book aims to help achieve a thorough understanding of the protection necessary. Vital aspects such as the modern cartridge fuse, types of relays, and the role of the current transformer are covered and the widely used inverse definite-time overcurrent relay, the theory of the Merz-Price protection system and the development of the high-impedance relay system are critically examined. This new edition has come about in response to the dramatic change from the use of electro-magnetic relays to electronic and micro-processor relays which figure in practically all new installations. Therefore, although the theory and usage are the same, the application can be much improved owing to the increased range and accuracy and the added facilities provided with the modern relays. This book reflects the change and explains the technical advantages.

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\*A practical guide to the control of reactive power systems \*Ideal for postgraduate and professional courses \*Covers the latest equipment and computer-aided analysis A definitive new guide to the control of active and reactive power, featuring the latest developments including FACTS Power Electronic Control in Electrical Systems offers a solid theoretical foundation for the electronic control of active and reactive power, providing an overview of the composition of electrical power networks; a basic description of the most popular power systems studies; and coverage of the roles of Flexible Alternating Current Transmission Systems (FACTS) and Custom Power equipment. Developments in power electronics have opened up new ways in which power control may be achieved not only in high-voltage transmission systems but also in low-voltage distribution systems, and the coverage of these developments makes this new book on active and reactive power control in electrical power systems essential reading for advanced students, engineers and academics alike. Within this book the fundamental concepts associated with the topic of power electronic control are covered alongside the latest equipment and devices, new application areas and associated computer-assisted methods.

This book provides a comprehensive practical treatment of the modelling of electrical power systems, and the theory and practice of fault analysis of power systems covering detailed and advanced theories as well as modern industry practices. The continuity and quality of electricity delivered safely and economically by today's and future's electrical power networks are important for both developed and developing economies. The correct modelling of power system equipment and correct fault analysis of electrical networks are pre-requisite to ensuring safety and they play a critical role in the identification of economic network investments. Environmental and economic factors require engineers to maximise the use of existing assets which in turn require accurate modelling and analysis techniques. The technology described in this book will always be required for the safe and economic design and operation of electrical power systems. The book describes relevant advances in industry such as in the areas of international standards developments, emerging new generation technologies such as wind turbine generators, fault current limiters, multi-phase fault analysis, measurement of equipment parameters, probabilistic short-circuit analysis and electrical interference. \*A fully up-to-date guide to the analysis and practical troubleshooting of short-circuit faults in electricity utilities and industrial power systems \*Covers generators, transformers, substations, overhead power lines and industrial systems with a focus on best-practice techniques, safety issues, power system planning and economics \*North American and British / European standards covered

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 book provides technical know-how not covered by most universities and colleges in a subject that is central to the roles of many electrical engineers in industry, focusing on switchgear, power cables, power factor correction, and network studies. \* Learn how to install and maintain electrical power equipment in industrial settings \* Select and specify the right power system at the right price \* Provides the practical essentials for reliable operation of industrial electrical networks - covering switchgear, cabling and power correction factors

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