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Distribution System Modeling and Analysis, Second Edition William H. Kersting, 2006-11-15 First introduced in 2001 Kersting's Distribution System Modeling and Analysis is the only textbook on computational modeling for electric power distribution systems Computer models are only as good as their input and this intuitive work clearly explains the principles and mathematics behind these models and provides approximation methods that help students recognize when a result is not what it should be Using the same authoritative yet accessible approach this second edition was updated to reflect the changes and advances in the field since the first edition appeared Nearly every chapter of this book has been updated according to new trends and areas of interest new technologies and the increasing spread of distributed generation Most notably this edition features a new chapter on the center tapped transformer for providing three wire service to single phase customers New discussions consider the effects of mutual coupling between overhead and underground lines running parallel for long distances expand on the discussion of induction machines to consider the rotor circuit and examine the effects of distributed generation technologies such as windmills on feeders Illustrated with numerous figures examples and exercises Distribution System Modeling and Analysis Second Edition remains the definitive textbook for teaching students to understand and model all aspects of modern distribution systems

Power Electronics Handbook Muhammad H. Rashid, 2010-07-19 Power electronics which is a rapidly growing area in terms of research and applications uses modern electronics technology to convert electric power from one form to another such as ac dc dc dc dc ac and ac ac with a variable output magnitude and frequency Power electronics has many applications in our every day life such as air conditioners electric cars sub way trains motor drives renewable energy sources and power supplies for computers This book covers all aspects of switching devices converter circuit topologies control techniques analytical methods and some examples of their applications 25% new content Reorganized and revised into 8 sections comprising 43 chapters Coverage of numerous applications including uninterruptable power supplies and automotive electrical systems New content in power generation and distribution including solar power fuel cells wind turbines and flexible transmission

The Electronics Handbook Jerry C. Whitaker, 1996-12-23 The superb organization of The Electronics Handbook means that it is not only a comprehensive and fascinating reference but also a pleasure to use Some of these organizational features include

Microelectronics Failure Analysis, 2004-01-01 For newcomers cast into the waters to sink or swim as well as seasoned professionals who want authoritative guidance desk side this hefty volume updates the previous 1999 edition It contains the work of expert contributors who rallied to the job in response to a committee's call for help the committee was assigned to the update by the Electron

Linear/switchmode Voltage Regulator Handbook, 1987 Electrical Engineer's Reference Book M. A. Laughton, D.F. Warne, 2002-09-27 For ease of use this edition has been divided into the following subject sections general principles materials and processes control power electronics and drives environment power

generation transmission and distribution power systems sectors of electricity use New chapters and major revisions include industrial instrumentation digital control systems programmable controllers electronic power conversion environmental control hazardous area technology electromagnetic compatibility alternative energy sources alternating current generators electromagnetic transients power system planning reactive power plant and FACTS controllers electricity economics and trading power quality An essential source of techniques data and principles for all practising electrical engineers Written by an international team of experts from engineering companies and universities Includes a major new section on control systems PLCs and microprocessors

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