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Electric power systems: a conceptual introduction/by Alexandra von Meier. p. cm. [A Wiley-Interscience publication.] Includes bibliographical references and index. ISBN-13: 978-0-471-17859-0 ISBN-10: 0-471-17859-4 1. Electric power systems. I. Title TK1005.M37 2006 621.31|dc22 2005056773 Printed in the United States of America 10 9876 543 21

ELECTRIC POWER SYSTEMS

A Textbook of Power System Engineering Paperback | January 1, 2012 by Rajput (Author) 5.0 out of 5 stars 2 ratings. See all formats and editions Hide other formats and editions. Price New from Used from Paperback, January 1, 2012 "Please retry" \$44.08 . \$19.68: \$44.05: Paperback

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Electric Power Systems explains and illustrates how the electric grid works in a clear, straightforward style that makes highly technical material accessible. It begins with a thorough discussion of the underlying physical concepts of electricity, circuits, and complex power that serves as a foundation for more advanced material.

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Rajput, A textbook of Power System Engineering. Firewall Media, 2006. 34. 5.3 Appendices. The structure, Format, Content, and style of a journal-style scientific paper department of engineering. Bates college. Academic skills office, university of new England.

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A Text Book on Power System Engineering by M.L.Soni, P.V.Gupta, U.S.Bhatnagar, A.Chakrabarthy, Dhanpat Rai & Co Pvt. Ltd. Electrical power systems | by C.L.Wadhwa, New Age International (P) Limited, Publishers,1998.

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The book includes a large number of worked examples, and questions with answers, and emphasizes design aspects of some key electrical components like cables and breakers. The book is designed to be used as reference, review, or self-study for practitioners and consultants, or for students from related engineering disciplines that need to learn more about electrical power systems.

Electrical Power Systems - 1st Edition

The book series Power Systems is aimed at providing detailed, accurate and sound technical information about these new developments in electrical power engineering. It includes topics on power generation, storage and transmission as well as electrical machines. The monographs and advanced textbooks in this series address researchers, lecturers, industrial engineers and senior students in electrical engineering.

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Electrical Power System by JB Gupta is very useful for basics ideas of power system and best for competitive exams And topics are covered in sufficient details. Must book for power system courses. Book Name | A Course In Power Systems By JB Gupta Author | J B Gupta Publisher | Katson Books Language | English Paperback | 550 Pages

Electrical Power System By JB Gupta - Morning Exam

The objective of the Electric Power Engineering Handbook is to provide a contemporary overview of this far-reaching field as well as a useful guide and educational resource for its study. It is intended to define electric power engineering by bringing together the core of knowledge from all of the many topics encompassed by the field.

Electric Power Generation, Transmission, and Distribution ...

If you want a good textbook on electric power systems then this is definitely one of the best. Read more. 2 people found this helpful. Report abuse. elisabetta. 5.0 out of 5 stars a must-have for power engineers. Reviewed in the United Kingdom on November 13, 2013. Verified Purchase.

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Power System Protection and Switchgear By BADRI RAM - Hunt4Pak

This book is written to help people identify the proper question to ask. There are several groups of potential users of a book on wind energy systems. There are those with non technical backgrounds who want a readable introduction. There are graduate engineers who need a detailed treatment of some aspect of wind power systems. And there are

A clear explanation of the technology for producing and delivering electricity Electric Power Systems explains and illustrates how the electric grid works in a clear, straightforward style that makes highly technical material accessible. It begins with a thorough discussion of the underlying physical concepts of electricity, circuits, and complex power that serves as a foundation for more advanced material. Readers are then introduced to the main components of electric power systems, including generators, motors and other appliances, and transmission and distribution equipment such as power lines, transformers, and circuit breakers. The author explains how a whole power system is managed and coordinated, analyzed mathematically, and kept stable and reliable. Recognizing the economic and environmental implications of electric energy production and public concern over disruptions of service, this book exposes the challenges of producing and delivering electricity to help inform public policy decisions. Its discussions of complex concepts such as reactive power balance, load flow, and stability analysis, for example, offer deep insight into the complexity of electric grid operation and demonstrate how and why physics constrains economics and politics. Although this survival guide includes mathematical equations and formulas, it discusses their meaning in plain English and does not assume any prior familiarity with particular notations or technical jargon. Additional features include: * A glossary of symbols, units, abbreviations, and acronyms * Illustrations that help readers visualize processes and better understand complex concepts * Detailed analysis of a case study, including a Web reference to the case, enabling readers to test the consequences of manipulating various parameters With its clear discussion of how electric grids work, Electric Power Systems is appropriate for a broad readership of professionals, undergraduate and graduate students, government agency managers, environmental advocates, and consumers.

This edition provides a systematic presentation of the main concepts referring to the electrical systems planning and operation, with the particularly interesting inclusion of many practical data, frequent reference to the IEC standards, and a detached view on the main approaches used in practice. The selection of the material makes it possible for the operator to retrieve in the book both concepts and indications on the applications, without needing to take a look at many manufacturer's data or huge handbooks. Describing in detail how electrical power systems are planned and designed, this book illustrates the required structures of systems, substations and equipment using international standards and latest computer methods. This book discusses both the advantages and disadvantages of the different arrangements within switchyards and of the topologies of the power systems, describing methods to determine the main design parameters of cables, overhead lines, and transformers needed to realize the supply task, as well as the influence of environmental conditions on the design and the permissible loading of the equipment. Additionally, general requirements for protection schemes and the main schemes related to the various protection tasks are given.

The second edition of Steven W. Blume's bestseller provides a comprehensive treatment of power technology for the non-electrical engineer working in the electric power industry This book aims to give non-electrical professionals a fundamental understanding of large interconnected electrical power systems, better known as the |Power Grid|, with regard to terminology, electrical concepts, design considerations, construction practices, industry standards, control room operations for both normal and emergency conditions, maintenance, consumption, telecommunications and safety. The text begins with an overview of the terminology and basic electrical concepts commonly used in the industry then it examines the generation, transmission and distribution of power. Other topics discussed include energy management, conservation of electrical energy, consumption characteristics and regulatory aspects to help readers understand modern electric power systems. This second edition features: New sections on renewable energy, regulatory changes, new measures to improve system reliability, and smart technologies used in the power grid system Updated practical examples, photographs, drawing, and illustrations to help the reader gain a better understanding of the material |Optional supplementary reading| sections within most chapters to elaborate on certain concepts by providing additional detail or background Electric Power System Basics for the Nonelectrical Professional, Second Edition, gives business professionals in the industry and entry-level engineers a strong introduction to power technology in non-technical terms. Steve W. Blume is Founder of Applied Professional Training, Inc., APT Global, LLC, APT College, LLC and APT Corporate Training Services, LLC, USA. Steve is a registered professional engineer and certified NERC Reliability Coordinator with a Master's degree in Electrical Engineering specializing in power and a Bachelor's degree specializing in Telecommunications. He has more than 25 years| experience teaching electric power system basics to non-electrical professionals. Steve's engineering and operations experience includes generation, transmission, distribution, and electrical safety. He is an active senior member in IEEE and has published two books in power systems through IEEE and Wiley.

The definitive textbook for Power Systems students, providing a grounding in essential power system theory while also focusing on practical power engineering applications. Electric Power Systems has been an essential book in power systems engineering for over thirty years. Bringing the content firmly up-to-date whilst still retaining the flavour of Weedy's extremely popular original, this Fifth Edition has been revised by experts Nick Jenkins, Janaka Ekanayake and Goran Strbac. This wide-ranging text still covers all of the fundamental power systems subjects but is now expanded to cover increasingly important topics like climate change and renewable power generation. Updated material includes an analysis of today's markets and an examination of the current economic state of power generation. The physical limits of power systems equipment - currently being tested by the huge demand for power - is explored, and greater attention is paid to power electronics, voltage source and power system components, amongst a host of other updates and revisions. Supplies an updated chapter on power system economics and management issues and extended coverage of power system components. Also expanded information on power electronics and voltage source, including VSC HVDC and FACTS. Updated to take into account the challenges posed by different world markets, and pays greater attention to up-to-date renewable power generation methods such as wind power. Includes modernized presentation and greater use of examples to appeal to today's students, also retains the end of chapter questions to assist with the learning process. Also shows students how to apply calculation techniques.

""This authoritative work presents detailed coverage of modern modeling and analysis techniques used in the design of electric power transmission systems -- emphasizing grounding and transients. It provides the theoretical background necessary for understanding problems related to grounding systems, such as safety and protection.

Electrical Power Systems provides comprehensive, foundational content for a wide range of topics in power system operation and control. With the growing importance of grid integration of renewables and the interest in smart grid technologies it is more important than ever to understand the fundamentals that underpin electrical power systems. The book includes a large number of worked examples, and questions with answers, and emphasizes design aspects of some key electrical components like cables and breakers. The book is designed to be used as reference, review, or self-study for practitioners and consultants, or for students from related engineering disciplines that need to learn more about electrical power systems. Provides comprehensive coverage of all areas of the electrical power system, useful as a one-stop resource Includes a large number of worked examples and objective questions (with answers) to help apply the material discussed in the book Features foundational content that provides background and review for further study/analysis of more specialized areas of electric power engineering

Power system operation from an operator's perspective Power systems are operated with the primary objectives of safety, reliability, and efficiency. Practical Power System Operation is the first book to provide a comprehensive picture of power system operation for both professional engineers and students alike. The book systematically describes the operator's functions, the processes required to operate the system, and the enabling technology solutions deployed to facilitate the processes. In his book, Dr. Ebrahim Vaahedi, an expert practitioner in the field, presents a holistic review of: The current state and workings of power system operation Problems encountered by operators and solutions to remedy the problems Individual operator functions, processes, and the enabling technology solutions Deployment of real-time assessment, control, and optimization solutions in power system operation Energy Management Systems and their architecture Distribution Management Systems and their architecture Power system operation in the changing energy industry landscape and the evolving technology solutions Because power system operation is such a critical function around the world, the consequences of improper operation range from financial repercussions to societal welfare impacts that put people's safety at risk. Practical Power System Operation includes a step-by-step illustrated guide to the operator functions, processes, and decision support tools that enable the processes. As a bonus, it includes a detailed review of the emerging technology and operation solutions that have evolved over the last few years. Written to the standards of higher education and university curriculums, Practical Power System Operation has been classroom tested for excellence and is a must-read for anyone looking to learn the critical skills they need for a successful career in power system operations.