

Power System Analysis By B R Gupta

Power Systems Analysis P.S.R. Murty 2017-06-09 Power Systems Analysis, Second Edition, describes the operation of the interconnected power system under steady state conditions and under dynamic operating conditions during disturbances. Written at a foundational level, including numerous worked examples of concepts discussed in the text, it provides an understanding of how to keep power flowing through an interconnected grid. The second edition adds more information on power system stability, excitation system, and small disturbance analysis, as well as discussions related to grid integration of renewable power sources. 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 power systems. Includes comprehensive coverage of the analysis of power systems, useful as a one-stop resource Features a large number of worked examples and objective questions (with answers) to help apply the material discussed in the book Offers foundational content that provides background and review for the understanding and analysis of more specialized areas of electric power engineering

Power Quality Ahmed F. Zobaa 2011-09-22 This book on power quality written by experts from industries and academics from various countries will be of great benefit to professionals, engineers and researchers. This book covers various aspects of power quality monitoring, analysis and power quality enhancement in transmission and distribution systems. Some of the key features of books are as follows: Wavelet and PCA to Power Quality Disturbance Classification applying a RBF Network; Power Quality Monitoring in a System with Distributed and Renewable Energy Sources; Signal Processing Application of Power Quality Monitoring; Pre-processing Tools and Intelligent Techniques for Power Quality Analysis; Single-Point Methods for Location of Distortion, Unbalance, Voltage Fluctuation and Dips Sources in a Power System; S-transform Based Novel Indices for Power Quality Disturbances; Load Balancing in a Three-Phase Network by Reactive Power Compensation; Compensation of Reactive Power and Sag Voltage using Superconducting Magnetic Energy Storage; Optimal Location and Control of Flexible Three Phase Shunt FACTS to Enhance Power Quality in Unbalanced Electrical Network; Performance of Modification of a Three Phase Dynamic Voltage Restorer (DVR) for Voltage Quality Improvement in Distribution System; Voltage Sag Mitigation by Network Reconfiguration; Intelligent Techniques for Power Quality Enhancement in Distribution Systems.

Power Systems Leonard L. Grigsby 2017-12-19 Power Systems, Third Edition (part of the five-volume set, The Electric Power Engineering Handbook) covers all aspects of power system protection, dynamics, stability, operation, and control. Under the editorial guidance of L.L. Grigsby, a respected and accomplished authority in power engineering, and section editors Andrew Hanson, Pritindra Chowdhuri, Gerry Sheblé, and Mark Nelms, this carefully crafted reference includes substantial new and revised contributions from worldwide leaders in the field. This content provides convenient access to overviews and detailed information on a diverse array of topics. Concepts covered include: Power system analysis and simulation Power system transients Power system planning (reliability) Power electronics Updates to nearly every chapter keep this book at the forefront of developments in modern power systems, reflecting international standards, practices, and technologies. New sections present developments in small-signal stability and power system oscillations, as well as power system stability controls and dynamic modeling of power systems. With five new and 10 fully revised chapters, the book supplies a high level of detail and, more importantly, a tutorial style of writing and use of photographs and graphics to help the reader understand the material. New chapters cover: Symmetrical Components for Power System Analysis Transient Recovery Voltage Engineering Principles of Electricity Pricing Business Essentials Power Electronics for Renewable Energy A volume in the Electric Power Engineering Handbook, Third Edition Other volumes in the set: K12642 Ele

Power System Analysis John Grainger 1994 This updated edition includes: coverage of power-system estimation, including current developments in the field; discussion of system control, which is a key topic covering economic factors of line losses and penalty factors; and new problems and examples throughout.

Electrical Power Transmission System Engineering Turan Gonen 2009-05-27 Although many textbooks deal with a broad range of topics in the power system area of electrical engineering, few are written specifically for an in-depth study of modern electric power transmission. Drawing from the author's 31 years of teaching and power industry experience, in the U.S. and abroad, Electrical Power Transmission System Engineering: Analysis and Design, Second Edition provides a wide-ranging exploration of modern power transmission engineering. This self-contained text includes ample numerical examples and problems, and makes a special effort to familiarize readers with vocabulary and symbols used in the industry. Provides essential impedance tables and templates for placing and locating structures Divided into two sections—electrical and mechanical design and analysis—this book covers a broad spectrum of topics. These range from transmission system planning and in-depth analysis of balanced and unbalanced faults, to construction of overhead lines and factors affecting transmission line route selection. The text includes three new chapters and numerous additional sections dealing with new topics, and it also reviews methods for allocating transmission line fixed charges among joint users. Uniquely comprehensive, and written as a self-tutorial for practicing engineers or students, this book covers electrical and mechanical design with equal detail. It supplies everything required for a solid understanding of transmission system engineering.

Power System Engineering D. P. Kothari 2007 Enlarged and revised chapter 1 on introduction to Power System Analysis New chapters on Voltage Stability Underground Cables Insulators for Overhead Lines Mechanical Design of Transmission Lines Neutral Grounding Corona High Voltage DC (HVDC) Transmission.

Electrical Power Systems C. L. Wadhwa 2009 About the Book: Electrical power system together with Generation, Distribution and utilization of Electrical Energy by the same author cover almost six to seven courses offered by various universities under Electrical and Electronics Engineering curriculum. Also, this combination has proved highly successful for writing competitive examinations viz. UPSC, NTPC, National Power Grid, NHPC, etc.

Electrical Energy Systems Shahriar Khan 2013-08-01 This textbook presents a modern approach for undergraduate (and graduate) Engineering students. Starting with Generators, it continues with Thermodynamics, Power Stations, Transportation, etc. While the material has been made easy-to-understand, there is emphasis on depth-of-knowledge and engineering principles. The chapter breakdown is as follows: 1. Forms and Sources of Energy 2. AC Generator 3. AC Generators in Parallel 4. DC Generator 5. Hydroelectric Power 6. Thermodynamic Processes 7. Carnot Cycle and Second Law of Thermodynamics 8. Reciprocating Engines 9. Gas Turbines 10. Steam Turbines 11. Solar Energy 12. Wind Turbines 13. Battery Technology 14. Electric and Hydroelectric Vehicles 15. Hydrocarbon Exploration 16. Saving Energy 17. Saving the Environment

Power System Analysis: Operation And Control Abhijit Chakrabarti 2006-06

Transients in Electrical Systems: Analysis, Recognition, and Mitigation J. C. Das 2010-05-06 Detect and Mitigate Transients in Electrical Systems This practical guide explains how to identify the origin of disturbances in electrical systems and analyze them for effective mitigation and control. Transients in Electrical Systems considers all transient frequencies, ranging from 0.1 Hz to 50 MHz, and discusses transmission line and cable modeling as well as frequency dependent behavior. Results of EMTP simulations, solved examples, and detailed equations are included in this comprehensive resource. Transients in Electrical Systems covers: Transients in lumped circuits Control systems Lightning strokes, shielding, and backflashovers Transients of shunt capacitor banks Switching transients and temporary overvoltages Current interruption in AC circuits Symmetrical and unsymmetrical short-circuit currents Transient behavior of synchronous generators, induction and synchronous motors, and transformers Power electronic equipment Flicker, bus, transfer, and torsional vibrations Insulation coordination Gas insulated substations Transients in low-voltage and grounding systems Surge arresters DC systems, short-circuits, distributions, and HVDC Smart grids and wind power generation

Applications of a digital computer to power system analysis Prem Prakash Gupta 1959

Transactions on Engineering Technologies Sio-Iong Ao 2018-10-24 This volume contains a selection of revised and extended research articles written

by prominent researchers participating in a large international conference on Advances in Engineering Technologies and Physical Science which was held in San Francisco, California, USA, October 25-27, 2017. Topics covered include engineering mathematics, electrical engineering, communications systems, computer science, chemical engineering, systems engineering, manufacturing engineering, and industrial applications. With contributions carefully chosen to represent the most cutting-edge research presented during the conference, the book contains some of the state-of-the-art in engineering technologies and the physical sciences and their applications, and serves as a useful reference for researchers and graduate students working in these fields.

Electric Renewable Energy Systems Muhammad H. Rashid 2015-11-25 This derivative volume stemming from content included in our seminal Power Electronics Handbook takes its chapters related to renewables and establishes them at the core of a new volume dedicated to the increasingly pivotal and as yet under-published intersection of Power Electronics and Alternative Energy. While this re-versioning provides a corollary revenue stream to better leverage our core handbook asset, it does more than simply re-package existing content. Each chapter will be significantly updated and expanded by more than 50%, and all new introductory and summary chapters will be added to contextualize and tie the volume together. Therefore, unlike traditional derivative volumes, we will be able to offer new and updated material to the market and include this largely original content in our ScienceDirect Energy collection. Due to the inherently multi-disciplinary nature of renewables, many engineers come from backgrounds in Physics, Materials, or Chemical Engineering, and therefore do not have experience working in-depth with electronics. As more and more alternative and distributed energy systems require grid hook-ups and on-site storage, a working knowledge of batteries, inverters and other power electronics components becomes requisite. Further, as renewables enjoy broadening commercial implementation, power electronics professionals are interested to learn of the challenges and strategies particular to applications in alternative energy. This book will bring each group up-to-speed with the primary issues of importance at this technological node. This content clarifies the juncture of two key coverage areas for our Energy portfolio: alternative sources and power systems. It serves to bridge the information in our power engineering and renewable energy lists, supporting the growing grid cluster in the former and adding key information on practical implementation to the latter. Provides a thorough overview of the key technologies, methods and challenges for implementing power electronics in alternative energy systems for optimal power generation. Includes hard-to-find information on how to apply converters, inverters, batteries, controllers and more for stand-alone and grid-connected systems. Covers wind and solar applications, as well as ocean and geothermal energy, hybrid systems and fuel cells.

Power System Analysis and Design J. Duncan Glover 2011-01-03 The new edition of POWER SYSTEM ANALYSIS AND DESIGN provides students with an introduction to the basic concepts of power systems along with tools to aid them in applying these skills to real world situations. Physical concepts are highlighted while also giving necessary attention to mathematical techniques. Both theory and modeling are developed from simple beginnings so that they can be readily extended to new and complex situations. The authors incorporate new tools and material to aid students with design issues and reflect recent trends in the field. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Modular Load Flow for Restructured Power Systems M.V. Hariharan 2016-02-15 In the subject of power systems, authors felt that a re-look is necessary at some conventional methods of analysis. In this book, the authors have subjected the time-honoured load flow to a close scrutiny. Authors have discovered and discussed a new load flow procedure - Modular Load Flow. Modular Load Flow explores use of power - a scalar - as source for electrical circuits which are conventionally analysed by means of phasors - the ac voltages or currents. The method embeds Kirchhoff's circuit laws as topological property into its scalar equations and results in a unique wonderland where phase angles do not exist! Generators are shown to have their own worlds which can be superimposed to obtain the state of the composite power system. The treatment is useful in restructured power systems where stakeholders and the system operators may desire to know individual generator contributions in line flows and line losses for commercial reasons. Solution in Modular Load Flow consists of explicit expressions which are applicable with equal ease to well-conditioned, ill-conditioned and very low voltage situations. It is found to be computationally much faster than the iterative load flows and indicates promise for online application. Indian blackouts of July 30 and 31, 2012 are analysed using an equivalent grid network to indicate its utility. Besides its ability to deal with ground reality in power systems, Modular Load Flow points to a theory that unveils interesting mathematical structures which should entice avid researchers. Second author has had first author as teacher and third author as student. The lecture notes therefore reflect ethos of three generations of teachers.

Power System Operation & Control: Ramana Power System Operation and Control is a comprehensive text designed for an undergraduate course in electrical engineering. Written in a simple and easy-to-understand manner, the book introduces the reader to economic operation of power system and r

Modern Power Systems Analysis Xi-Fan Wang 2010-06-07 The capability of effectively analyzing complex systems is fundamental to the operation, management and planning of power systems. This book offers broad coverage of essential power system concepts and features a complete and in-depth account of all the latest developments, including Power Flow Analysis in Market Environment; Power Flow Calculation of AC/DC Interconnected Systems and Power Flow Control and Calculation for Systems Having FACTS Devices and recent results in system stability.

Power System BR Gupta 2008 It is gratifying to note that the book has very widespread acceptance by faculty and students throughout the country. In the revised edition some new topics have been added. Additional solved examples have also been added. The data of transmission system in India has been updated.

International Conference on Artificial Intelligence: Advances and Applications 2019 Garima Mathur 2020-02-28 This book introduces research presented at the "International Conference on Artificial Intelligence: Advances and Applications-2019 (ICAIAA 2019)," a two-day conference and workshop bringing together leading academicians, researchers as well as students to share their experiences and findings on all aspects of engineering applications of artificial intelligence. The book covers research in the areas of artificial intelligence, machine learning, and deep learning applications in health care, agriculture, business and security. It also includes research in core concepts of computer networks, intelligent system design and deployment, real-time systems, WSN, sensors and sensor nodes, SDN and NFV. As such it is a valuable resource for students, academics and practitioners in industry working on AI applications.

Electric Energy Systems Antonio Gomez-Exposito 2018-06-14 Electric Energy Systems, Second Edition provides an analysis of electric generation and transmission systems that addresses diverse regulatory issues. It includes fundamental background topics, such as load flow, short circuit analysis, and economic dispatch, as well as advanced topics, such as harmonic load flow, state estimation, voltage and frequency control, electromagnetic transients, etc. The new edition features updated material throughout the text and new sections throughout the chapters. It covers current issues in the industry, including renewable generation with associated control and scheduling problems, HVDC transmission, and use of synchrophasors (PMUs). The text explores more sophisticated protections and the new roles of demand, side management, etc. Written by internationally recognized specialists, the text contains a wide range of worked out examples along with numerous exercises and solutions to enhance understanding of the material. Features Integrates technical and economic analyses of electric energy systems. Covers HVDC transmission. Addresses renewable generation and the associated control and scheduling problems. Analyzes electricity markets, electromagnetic transients, and harmonic load flow. Features new sections and updated material throughout the text. Includes examples and solved problems.

Small Signal Analysis of Power Systems M. A. Pai 2004 Power system oscillations without a big disturbance occur spontaneously in a power system and if they are not damped out properly may lead to grid failure. In this book we examine the methodology to study this phenomenon from several angles. Modeling the system to investigate these oscillations is given top priority along with physical interpretation of the phenomenon. The book covers low frequency 1-3 Hz as well as sub synchronous oscillations in the 10-50 Hz range. The latter are called torsional oscillations. Design of Power system stabilizers as well as damping techniques for sub synchronous oscillations are discussed. Modeling and design of FACTS devices is included. The small signal analysis of multimachine systems along with the selective computation of Eigen value(s) of interest in a large system is

presented.

Artificial Intelligence Techniques in Power Systems Operations and Analysis Nagendra Singh 2023-08-16 An electrical power system consists of a large number of generation, transmission, and distribution subsystems. It is a very large and complex system; hence, its installation and management are very difficult tasks. An electrical system is essentially a very large network with very large data sets. Handling these data sets can require much time to analyze and subsequently implement. An electrical system is necessary but also potentially very dangerous if not operated and controlled properly. The demand for electricity is ever increasing, so maintaining load demand without overloading the system poses challenges and difficulties. Thus, planning, installing, operating, and controlling such a large system requires new technology. Artificial intelligence (AI) applications have many key features that can support a power system and handle overall power system operations. AI-based applications can manage the large data sets related to a power system. They can also help design power plants, model installation layouts, optimize load dispatch, and quickly respond to control apparatus. These applications and their techniques have been successful in many areas of power system engineering. Artificial Intelligence Techniques in Power Systems Operations and Analysis focuses on the various challenges arising in power systems and how AI techniques help to overcome these challenges. It examines important areas of power system analysis and the implementation of AI-driven analysis techniques. The book helps academicians and researchers understand how AI can be used for more efficient operation. Multiple AI techniques and their application are explained. Also featured are relevant data sets and case studies. Highlights include: Power quality enhancement by PV-UPQC for non-linear load Energy management of a nanogrid through flair of deep learning from IoT environments Role of artificial intelligence and machine learning in power systems with fault detection and diagnosis AC power optimization techniques Artificial intelligence and machine learning techniques in power systems automation

Generation of Electrical Energy, 7th Edition Gupta B.R. 2017 Generation of Electrical Energy is written primarily for the undergraduate students of electrical engineering while also covering the syllabus of AMIE and act as a refresher for the professionals in the field. The subject itself is now rejuvenated with important new developments. With this in view, the book covers conventional topics like load curves, steam generation, hydro-generation parallel operation as well as new topics like new sources of energy generation, hydrothermal coordination, static reserve reliability evaluation among others.

Software Engineering Sajan Mathew 2007 This book is a comprehensive, step-by-step guide to software engineering. This book provides an introduction to software engineering for students in undergraduate and post graduate programs in computers.

ELECTRICAL POWER SYSTEMS P. VENKATESH 2012-04-03 This textbook introduces electrical engineering students to the most relevant concepts and techniques in three major areas today in power system engineering, namely analysis, security and deregulation. The book carefully integrates theory and practical applications. It emphasizes power flow analysis, details analysis problems in systems with fault conditions, and discusses transient stability problems as well. In addition, students can acquire software development skills in MATLAB and in the usage of state-of-the-art software tools such as Power World Simulator (PWS) and Siemens PSS/E. In any energy management/operations control centre, the knowledge of contingency analysis, state estimation and optimal power flow is of utmost importance. Part 2 of the book provides comprehensive coverage of these topics. The key issues in electricity deregulation and restructuring of power systems such as Transmission Pricing, Available Transfer Capability (ATC), and pricing methods in the context of Indian scenario are discussed in detail in Part 3 of the book. The book is interspersed with problems for a sound understanding of various aspects of power systems. The questions at the end of each chapter are provided to reinforce the knowledge of students as well as prepare them from the examination point of view. The book will be useful to both the undergraduate students of electrical engineering and postgraduate students of power engineering and power management in several courses such as Power System Analysis, Electricity Deregulation, Power System Security, Restructured Power Systems, as well as laboratory courses in Power System Simulation.

Power System Analysis and Design B. P. Gupta 1985

The Shriver Report Maria Shriver 2014-01-11 Facts, figures, and essays on women and poverty by Barbara Ehrenreich, Kirsten Gillibrand, LeBron James, and other high-profile contributors. Fifty years after President Lyndon B. Johnson called for a War on Poverty and enlisted Sargent Shriver to oversee it, the most important social issue of our day is once again the dire economic straits of millions of Americans. One in three live in poverty or teeter on the brink—and seventy million are women and the children who depend on them. The fragile economic status of millions of American women is the shameful secret of the modern era—yet these women are also our greatest hope for change, and our nation's greatest undervalued asset. The Shriver Report: A Woman's Nation Pushes Back from the Brink asks—and answers—big questions. Why are millions of women financially vulnerable when others have made such great progress? Why are millions of women struggling to make ends meet even though they are hard at work? What is it about our nation—government, business, family, and even women themselves—that drives women to the financial brink? And what is at stake? To forge a path forward, this book brings together a power-packed roster of big thinkers and talented contributors, in a volume that combines academic research, personal reflections, authentic photojournalism, groundbreaking poll results, and insights from frontline workers; political, religious, and business leaders; and major celebrities—all focused on a single issue of national importance: women and the economy. "A startling wake-up call for policymakers and anyone hoping to survive a culture that siphons wealth upward to a very powerful few." —Booklist Contributors include: Carol Gilligan, PhD * Barbara Ehrenreich * Beyoncé Knowles-Carter * LeBron James * Anne-Marie Slaughter * Kirsten Gillibrand * Hillary Rodham Clinton * Tory Burch * Sister Joan Chittister * Arne Duncan * Kathleen Sibelius * Howard Schultz * and more!

POWER SYSTEM ANALYSIS S. RAMAR 2013-03-25 Designed primarily as a textbook for senior undergraduate students pursuing courses in Electrical and Electronics Engineering, this book gives the basic knowledge required for power system planning, operation and control. The contents of the book are presented in simple, precise and systematic manner with lucid explanation so that the readers can easily understand the underlying principles. The book deals with the per phase analysis of balanced three-phase system, per unit values and application including modelling of generator, transformer, transmission line and loads. It explains various methods of solving power flow equations and discusses fault analysis (balanced and unbalanced) using bus impedance matrix. It describes various concepts of power system stability and explains numerical methods such as Euler method, modified Euler method and Runge-Kutta methods to solve Swing equation. Besides, this book includes flow chart for computing symmetrical and unsymmetrical fault current, power flow studies and for solving Swing equation. It is also fortified with a large number of solved numerical problems and short-answer questions with answers at the end of each chapter to reinforce the students understanding of concepts. This textbook would also be useful to the postgraduate students of power systems engineering as a reference.

Protection Challenges in Meeting Increasing Electric Power Demand Om Hari Gupta 2021-01-11 This reference book provides a detailed discussion on the protection challenges that arise due to technological improvements in transmission and distribution systems to supply increasing power demand. The primary focus of this book is transmission line protection with FACTS devices connected to the line and islanding detection in an active distribution system i.e., microgrids. First, a literature review on the protection of transmission lines in the presence of switching devices is presented. The following chapters then present commonly proposed modifications required in the power system to meet increasing power demands, commonly used existing protection schemes and their limitations in the presence of switching devices, and solutions to these limitations in protection schemes. Results from fault simulations using PSCAD/EMTDC and MATLAB are also included. This book will be valuable to graduate students and practicing engineers alike for dealing with protection issues in transmission and distribution systems incorporating FACTS devices. Provides thorough knowledge of trends in transmission networks for the enhancement of power flow, control and protection Presents an analysis of requirements of microgrids in the future Highlights challenges in the protection of active distribution systems or microgrids against islanding in the presence of distributed generation

Power System Operation and Control Sivanagaraju, S. Power System Operation and Control is comprehensively designed for undergraduate and postgraduate courses in electrical engineering. This book aims to meet the requirements of electrical engineering students and is useful for practicing engineers.

Electric Power Systems Ned Mohan 2012-01-18 Author Ned Mohan has been a leader in EES education and research for decades. His three-book series on Power Electronics focuses on three essential topics in the power sequence based on applications relevant to this age of sustainable energy such as wind turbines and hybrid electric vehicles. The three topics include power electronics, power systems and electric machines. Key features in the first Edition build on Mohan's successful MNPERE texts; his systems approach which puts dry technical detail in the context of applications; and substantial pedagogical support including PPT's, video clips, animations, clicker questions and a lab manual. It follows a top-down systems-level approach to power electronics to highlight interrelationships between these sub-fields. It's intended to cover fundamental and practical design. This book also follows a building-block approach to power electronics that allows an in-depth discussion of several important topics that are usually left. Topics are carefully sequenced to maintain continuity and interest.

Recent Advances in Power Systems Om Hari Gupta 2022-02-14 This book contains selected proceedings of EPREC-2021 with a focus on power systems. The book includes original research and case studies that present recent developments in power systems, principally renewable energy conversion systems, distributed generations, microgrids, smart grid, HVDC & FACTS, power quality, power system protection, etc. The book will be a valuable reference guide for beginners, researchers, and professionals interested in advancements in power systems.

ELECTRICAL POWER SYSTEMS SUBIR RAY 2014-04-04 This textbook, in its second edition aims to provide undergraduate students of Electrical Engineering with a unified treatment of all aspects of modern power systems, including generation, transmission and distribution of electric power, load flow studies, economic considerations, fault analysis and stability, high voltage phenomena, system protection, power control, and so on. The text systematically deals with the fundamental techniques in power systems, coupled with adequate analytical techniques and reference to practices in the field. Special emphasis is placed on the latest developments in power system engineering. The book will be equally useful to the postgraduate students specialising in power systems and practising engineers as a reference. NEW TO THIS EDITION • Chapters on Elements of Electric Power Generation and Power System Economics are thoroughly updated. • A new Chapter on Control of Active and Reactive Power is added.

Restructuring Electric Power Systems S K Gupta 2018-05-10 Restructuring Electric Power System gives readers a thorough understanding of the technology involved in this very recent advance field. Electricity is a commodity with several features that distinguish it from other goods and services. It cannot be stored and its instant transmission requires a network of wires. A pre-requisite for ensuring orderly transportation of electricity under new regulatory environment is the creation of an independent entity that would channelize and control its flow in an optimum manner and without any discrimination, just as a traffic policeman or air traffic controller does in respect of traffic flowing to and from several directions. This causes several issues which are dealt by this book systematically. This book shall be useful as text/reference to field engineers, undergraduate, postgraduate students and the research scholars working in this field. MATLAB M-files and SIMULINK have been included in some of the numerical examples to assist the analysis. Thus, the book includes topics power flow analysis, Power trading, restructured market, market forces and transmission issues, ATC, congestion management, AGC and ancillary services.

Power System Analysis J. B. Gupta 2011

Power System Operation and Protection Shahriar Khan 2014-09-01 Even in the age of renewable energy, the relevance of power systems remains as great as ever. The operation and protection of power systems is of great importance to both students and practitioners. This books continues with Prof. Khan's tradition of making complex topics easy to understand, and yet build depth of understanding in the student.

Power System Operation, Utilization, and Control John Fuller 2022-07-21 This book presents power system analysis methods that cover all aspects of power systems operation, utilization, control, and system management. At the beginning of each chapter, an introduction is given describing the objectives of the chapter. The authors have attempted to present power system parameters in a lucid, logical, step-by-step approach in a lucid, logical, step-by-step approach. In recognition of requirements by the Accreditation Board for Engineering and Technology (ABET) on integration of engineering computer tools, the authors demonstrate the use of MATLAB® programming in obtaining solutions to engineering power problems. MATLAB is introduced in a student-friendly manner and follow up is given in Appendix A. The use of MATLAB and power system applications are presented throughout the book. Practice problems immediately follow each illustrative example. Students can follow the example step-by-step to solve the practice problems. These practice problems test students' comprehension and reinforce key concepts before moving on to the next chapter. In each chapter, the authors discuss some application aspects of the chapter's concepts using computer programming. The material covered in the chapter applied to at least one or two practical problems to help students see how the concepts are used in real-life situations. Thoroughly worked examples are provided at the end of every section. These examples give students a solid grasp of the solutions and the confidence to solve similar problems themselves. Designed for a three-hour semester course on Power System Operation, Utilization, and Control, this book is intended as a textbook for a senior-level undergraduate student in electrical and computer engineering. The prerequisites for a course based on this book are knowledge of standard mathematics, including calculus and complex numbers and basic undergraduate engineering courses.

Power System Operation Control and Restructuring S. K. Gupta 2015-06-30 Provides a thorough understanding of the fundamentals and applications of modelling, analysing the problem of stability, operation of power systems, and problems associated with restructured power systems. With its coverage and focus, this book will meet the needs of students of power systems engineering courses. It will also serve as a useful reference resource for researchers and practising engineers.

Power System Protection and Relaying Samir I. Abood 2023-09-29 This textbook provides an excellent focus on the advanced topics of the power system protection philosophy and gives exciting analysis methods and a cover of the important applications in the power systems relaying. Each chapter opens with a historical profile or career talk, followed by an introduction that states the chapter objectives and links the chapter to the previous ones, and then the introduction for each chapter. All principles are presented in a lucid, logical, step-by-step approach. As much as possible, the authors avoid wordiness and detail overload that could hide concepts and impede understanding. In each chapter, the authors present some of the solved examples and applications using a computer program. Toward the end of each chapter, the authors discuss some application aspects of the concepts covered in the chapter using a computer program. In recognition of requirements by the Accreditation Board for Engineering and Technology (ABET) on integrating computer tools, the use of SCADA technology is encouraged in a student-friendly manner. SCADA technology using the Lucas-Nulle GmbH system is introduced and applied gradually throughout the book. Practice problems immediately follow each illustrative example. Students can follow the example step by step to solve the practice problems without flipping pages or looking at the book's end for answers. These practice problems test students' comprehension and reinforce key concepts before moving on to the next section. Power System Protection and Relaying: Computer-Aided Design Using SCADA Technology is intended as a textbook for a senior-level undergraduate student in electrical and computer engineering departments and is appropriate for graduate students, industry professionals, researchers, and academics. The book has more than ten categories and millions of power readers. It can be used in more than 400 electrical engineering departments at top universities worldwide. Based on this information, targeted lists of the engineers from specific disciplines include the following: Electrical, computer, power control, technical power system, protection, design, and distribution engineers. Designed for a three-hours semester course on "power system protection and relaying," the prerequisite for a course based on this book are knowledge of standard mathematics, including calculus and complex numbers.

Geometrical Methods for Power Network Analysis Stefano Bellucci 2012-12-15 This book is a short introduction to power system planning and operation using advanced geometrical methods. The approach is based on well-known insights and techniques developed in theoretical physics in the context of Riemannian manifolds. The proof of principle and robustness of this approach is examined in the context of the IEEE 5 bus system. This work addresses applied mathematicians, theoretical physicists and power engineers interested in novel mathematical approaches to power network theory.

Power System Analysis By B R Gupta :

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