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He holds many patents and has published widely on this subject. He is the author of Electrical Transients in Power Systems (John Wiley & Sons, 2nd edn, 1991). Dr. Greenwood is a life Fellow of the IEEE, an Attwood Associate of CIGRE and a former Visiting Fellow of Churchill College, Cambridge.

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The principles of the First Edition--to teach students and engineers the fundamentals of electrical transients and equip them with the skills to recognize and solve transient problems in power networks and components--also guide this Second Edition. While the text continues to stress the physical aspects of the phenomena involved in these problems, it also broadens and updates the computational treatment of transients. Necessarily, two new chapters address the subject of modeling and models for most types of equipment are discussed. The adequacy of the models, their validation and the relationship between model and the physical entity it represents are also examined. There are now chapters devoted entirely to isolation coordination and protection, reflecting the revolution that metal oxide surge arresters have caused in the power industry. Features additional and more complete illustrative material--figures, diagrams and worked examples. An entirely new chapter of case studies demonstrates modeling and computational techniques as they have been applied by engineers to specific problems.

" Fundamental Notions About Electrical Transients." The Laplace Transform Method of Solving Differential Equations." Simple Switching Transients." Damping." Abnormal Switching Transients." Transients in Three-Phase Circuits." Transients in Direct Current Circuits, Conversion Equipment and Static Var Controls." Electromagnetic Phenomena of Importance Under Transient Conditions." Traveling Waves and Other Transients on Transmission Lines." Principles of Transient Modeling of Power Systems and Components." Modeling Power Apparatus and the Behavior of Such Equipment Under Transient Conditions." Computer Aids to the Calculation of Electrical Transients." System and Component Parameter Values for Use in Transient Calculations and Means to Obtain Them in Measurement." Lightning." Insulation Coordination." Protection of Systems and Equipment Against Transient Overvoltages." Case Studies in Electrical Transients." Equipment for Measuring Transients." Measuring Techniques and Surge Testing." Appendices." Index.

Every now and then, a good book comes along and quite rightfully makes itself a distinguished place among the existing books of the electric power engineering literature. This book by Professor Arieh Shenkman is one of them. Today, there are many excellent textbooks dealing with topics in power systems. Some of them are considered to be classics. However, many of them do not particularly address, nor concentrate on, topics dealing with transient analysis of electrical power systems. Many of the fundamental facts concerning the transient behavior of electric circuits were well explored by Steinmetz and other early pioneers of electrical power engineering. Among others, Electrical Transients in Power Systems by Allan Greenwood is worth mentioning. Even though basic knowledge of transients may not have advanced in recent years at the same rate as before, there has been a tremendous proliferation in the techniques used to study transients.

The application of computers to the study of transient phenomena has increased both the knowledge as well as the accuracy of calculations. Furthermore, the importance of transients in power systems is receiving more and more attention in recent years as a result of various blackouts, brownouts, and recent collapses of some large power systems in the United States, and other parts of the world. As electric power consumption grows exponentially due to increasing population, modernization, and industrialization of the so-called third world, this topic will be even more important in the future than it is at the present time.

Vacuum switches now dominate the medium-voltage sector (below 30 kV) for all power switching functions. Allan Greenwood is a world authority in this field; in this book he shows how vacuum arcs and current interruption in vacuum are different from gaseous arcs and interruption in gas circuit breakers, and leads the reader to understand these differences - thereby enabling successful design, construction and use of vacuum switchgear. This comprehensive treatment (including an introductory historical perspective) makes the book useful for users and manufacturers as well as designers.

Provides students with an understanding of the modeling and practice in power system stability analysis and control design, as well as the computational tools used by commercial vendors. Bringing together wind, FACTS, HVDC, and several other modern elements, this book gives readers everything they need to know about power systems. It makes learning complex power system concepts, models, and dynamics simpler and more efficient while providing modern viewpoints of power system analysis. Power System Modeling, Computation, and Control provides students with a new and detailed analysis of voltage stability; a simple example illustrating the BCU method of transient stability analysis; and one of only a few derivations of the transient synchronous machine model. It offers a discussion on reactive power consumption of induction motors during start-up to illustrate the low-voltage phenomenon observed in urban load centers. Damping controller designs using power system stabilizer, HVDC systems, static var compensator, and thyristor-controlled series compensation are also examined. In addition, there are chapters covering flexible AC transmission Systems (FACTS)—including both thyristor and voltage-sourced converter technology—and wind turbine generation and modeling. Simplifies the learning of complex power system concepts, models, and dynamics. Provides chapters on power flow solution, voltage stability, simulation methods, transient stability, small signal stability, synchronous machine models (steady-state and dynamic models), excitation systems, and power system stabilizer design. Includes advanced analysis of voltage stability, voltage recovery during motor starts, FACTS and their operation, damping control design using various control equipment, wind turbine models, and control. Contains numerous examples, tables, figures of block diagrams, MATLAB plots, and problems involving real systems. Written by experienced educators whose previous books and papers are used extensively by the international scientific community. Power System Modeling, Computation, and Control is an ideal textbook for graduate students of the subject, as well as for power system engineers and control design professionals.

Covering the fundamentals of electrical transients, this book will equip readers with the skills to recognise and solve transient problems in power networks and components. Starting with the basics of transient electrical circuit theory, and moving on to discuss the effects of power transience in all types of power equipment, van der Sluis provides new insight into this important field. Recent advances in measurement techniques, computer modelling and switchgear development are given comprehensive coverage for the first time. An electromagnetic transients calculation program is included and will prove valuable to both students and engineers in the field.

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.

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