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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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He holds many patents and has published widely on this  
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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.

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

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For college students and practicing engineers.

Every now and then, a good book comes along and quite rightfully makes itself a distinguished place among the

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existing books of the electric power engineering literature. This book by Professor Arie 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



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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.

Electromagnetic transients in power systems are generated

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by lightning and switching surges and can result in frequent and costly failures of electrical systems. This book explains modern theories of the generation, propagation and interaction of electrical transients with electrical systems. It also covers practices for the protection of electrical systems against transients. Presents the basic mathematical and physical principles of electromagnetic transients. -- Addresses topics that are of prime importance to the electric power industry today, including lightning-induced voltages on overhead lines, protection of substations, and the effects of transient on low-voltage systems. -- Includes problems to facilitate understanding of the various topics.

Detect and Mitigate Transients in Electrical Systems This

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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

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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

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

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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.

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