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Based upon years of teaching experience, M. Abdus Salam covers the fundamentals and important topics which can help students to develop a lasting and sound knowledge of electrical machines.

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.

Regardless of its outcome, the Iraq War has had a transformative effect on the Middle East. To equip U.S. policymakers to better manage the war's long-term consequences, the authors analyzed its effects on the regional balance of power, local perceptions of U.S. credibility, the domestic stability of neighboring states, and trends in terrorism after conducting extensive interviews in the region and drawing from an array of local media sources.

Power System Analysis provides the basic fundamentals of power system analysis with detailed illustrations and explanations. Throughout the book, carefully chosen examples are given with a systematic approach to have a better understanding of the text discussed. It presents the topics of power system analysis including power system modeling, load flow studies, symmetrical and unsymmetrical fault analyses, stability analysis, etc. The book is principally designed as a self-study material for electrical engineering students.* Cogent and lucid style of presentation.* Clear explanations of concepts with appropriate illustrations.* Examples with detailed explanations.* Systematic, step-by-step approach to solved problems.* Short-answer questions to recapitulate the basics.* Exercises at the end of each chapter for self-practice.* Solution to university questions for better scoring.

The classic reference for power-system engineers Power System Stability, Volumes I, II, III is a classic reference for power-system engineers, now reissued together as a set. Volume I, Elements of Stability Calculations, covers the elements of stability, principal affecting factors, and applications on power systems. Volume II, Power Circuit Breakers and Protective Relays features in-depth information on organization, materials, actions, and conditions as they relate to power system stability. Volume III, Synchronous Machines, details the more advanced calculations required in special circumstances that demand a higher level of accuracy than the simplified calculations presented in Volume I can provide.

Classic power system dynamics text now with phasor measurement and simulation toolbox This new edition addresses the needs of dynamic modeling and simulation relevant to power system planning, design, and operation, including a systematic derivation of synchronous machine dynamic models together with speed and voltage control subsystems. Reduced-order modeling based on integral manifolds is used as a firm basis for understanding the derivations and limitations of lower-order dynamic models. Following these developments, multi-machine model interconnected through the transmission network is formulated and simulated using numerical simulation methods. Energy function methods are discussed for direct evaluation of stability. Small-signal analysis is used for determining the electromechanical modes and mode-shapes, and for power system stabilizer design. Time-synchronized high-sampling-rate phasor measurement units (PMUs) to monitor power system disturbances have been implemented throughout North America and many other countries. In this second edition, new chapters on synchrophasor measurement and using the Power System Toolbox for dynamic simulation have been added. These new materials will reinforce power system dynamic aspects treated more analytically in the earlier chapters. Key features: Systematic derivation of synchronous machine dynamic models and simplification. Energy function methods with an emphasis on the potential energy boundary surface and the controlling unstable equilibrium point approaches. Phasor computation and synchrophasor data applications. Book companion website for instructors featuring solutions and PowerPoint files. Website for students featuring MATLABM files. Power System Dynamics and Stability, 2nd Edition, with Synchrophasor Measurement and Power System Toolbox combines theoretical as well as practical information for use as a text for formal instruction or for reference by working engineers.

This hallmark text on Power System Engineering provides the readers a comprehensive account of all key concepts in the field. The book includes latest technology developments and talks about some crucial areas of Power system, such as Transmission & Distribution, Analysis & Stability, and Protection & Switchgear. With its rich content, it caters to the requirements of students, instructors, and professionals.

Cyber weapons and the possibility of cyber conflict—including interference in foreign political campaigns, industrial sabotage, attacks on infrastructure, and combined military campaigns—require policymakers, scholars, and citizens to rethink twenty-first-century warfare. Yet because cyber capabilities are so new and continually developing, there is little agreement about how they will be deployed, how effective they can be, and how they can be managed. Written by leading scholars, the fourteen case studies in this volume will help policymakers, scholars, and students make sense of contemporary cyber conflict through historical analogies to past military-technological problems. The chapters are divided into three groups. The first—What Are Cyber Weapons Like?—examines the characteristics of cyber capabilities and how their use for intelligence gathering, signaling, and precision striking compares with earlier technologies for such missions. The second section—What Might Cyber Wars Be Like?—explores how lessons from several wars since the early nineteenth century, including the World Wars, could apply—or not—to cyber conflict in the twenty-first century. The final section—What Is Preventing and/or Managing Cyber Conflict Like?—offers lessons from past cases of managing threatening actors and technologies.

Networks of Outrage and Hope is an exploration of the newforms of social movements and protests that are erupting in theworld today, from the Arab uprisings to the indignadas movement inSpain, from the Occupy Wall Street movement to the social protestsin Turkey, Brazil and elsewhere. While these and similar socialmovements differ in many important ways, there is one thing theyshare in common: they are all interwoven inextricably with thecreation of autonomous communication networks supported by theInternet and wireless communication. In this new edition of his timely and important book, ManuelCastells examines the social, cultural and political roots of thesenew social movements, studies their innovative forms ofself-organization, assesses the precise role of technology in thedynamics of the movements, suggests the reasons for the supportthey have found in large segments of society, and probes theircapacity to induce political change by influencing people'sminds. Two new chapters bring the analysis up-to-date and draw outthe implications of these social movements and protests forunderstanding the new forms of social change and politicaldemocracy in the global network society.

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