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This book presents a general framework for modelling power system devices to develop complete electromechanical

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models for synchronous machines, induction machines, and power electronic devices. It also presents linear system analysis tools that are specific to power systems and which are not generally taught in

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undergraduate linear system courses. Lastly, the book covers the application of the models, analysis and tools to the design of automatic voltage controllers and power system stabilisers, both for

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single-machine-infinite-bus systems and multi-machine interconnected systems. In most textbooks modelling, dynamic analysis, and control are closely linked to the computation methods used for

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analysis and design. In contrast, this book separates the essential principles and the computational methods used for power system dynamics and control. The clear distinction between principles

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and methods makes the potentially daunting task of designing controllers for power systems much easier to approach. A rich set of exercises is also included, and represents an integral part of

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the book. Students can immediately apply—using any computational tool or software—the essential principles discussed here to practical problems, helping them master the essentials.

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NEC and IEC standards, and gives an overview of applications in industry.

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against electric shock, as well as selectivity and backup protection. A chapter on the current carrying capacity of conductors and cables comes next, followed by ones on calculation of short circuit

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currents in three-phase networks and voltage drop calculations. Finally, the book takes a look at compensating for reactive power and finishes with a section on lightning protection systems. Covers a

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subject of great international importance Features numerous tables, diagrams, and worked examples that help practicing engineers in the planning of electrical systems Written by an expert in the field and

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member of various national and international standardization committees
Supplemented with programs on an accompanying website that help readers reproduce and adapt calculations on their

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own Analysis and Design of
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Practical Guide and
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for all practicing engineers
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engineers in power technology, etc. who are involved in electrical systems planning. Although many textbooks deal with a broad range of topics in the power system area of electrical engineering, few are

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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

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**leaders” who redefine
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they constantly seek to do
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His groundbreaking
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Probabilistic Methods Applied to

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Electric Power Systems contains the proceedings of the First International Symposium held in Toronto, Ontario, Canada, on July 11-13, 1986. The papers explore significant technical advances that have been made in the application

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of probability methods to the design of electric power systems. This volume is comprised of 65 chapters divided into 10 sections and begins by discussing the probabilistic methodologies used in the assessment of power system

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reliability and structural design. The following chapters focus on the applications of probabilistic techniques to the analysis and design of transmission systems and structures; evaluation of design and reliability of distribution

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systems; system planning; and assessment of performance of transmission system components such as insulators, tower joints, and foundations. The probability-based procedures for dealing with data bases such as wind load and

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ice load are also considered, along with the effects of weather-induced loads on overhead power lines and the use of probability methods in upgrading existing power lines and components. The final section deals with applications of probability

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methods to power system problems not covered in other chapters. This book will be of value to engineers involved in uprating, designing, analyzing, and assessing reliability of transmission and distribution systems.

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how the system should be built
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This book provides technological and socio-economic coverage of renewable energy. It discusses wind power technologies, solar

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system integration for solar and
wind energy Presents emerging
DC wind systems Includes

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textbook for senior undergraduates in a one-semester course on renewable power or energy systems. Solar and wind energy systems have flourished throughout the United States in the last few years as the public calls for

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the demand for designers and installers increases. This book provides a resource for engineering students interested in the design and operation of solar electric, solar thermal, wind, and other renewable systems. While there are many

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good reference books on power systems and renewable energy, this book integrates the engineering basics of existing power systems with design problems and solutions using renewable energy sources. The author includes chapters on

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Foreword. Preface.

Acknowledgments. 1.

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Dynamic Behavior of the

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Appendix 1: Transformation to
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