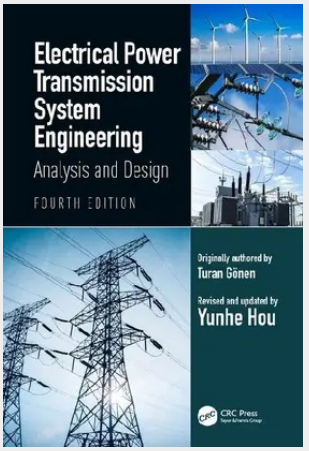
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Electrical Power Transmission System Engineering

Analysis and Design



Today, there are various textbooks dealing with a broad range of topics in the power system area of electrical engineering. Some of them are considered to be classics. However, they do not particularly concentrate on topics dealing with electric power transmission. Therefore, Electrical Power Transmission System Engineering: Analysis and Design, as a textbook, is unique; it is written specifically for an in-depth study of modern power transmission engineering. Written in the classic, self-learning style of the original, Electrical Power Transmission System Engineering: Analysis and Design, Fourth Edition is updated and features: - HVDC system operation and control - Renewable energy (including wind and solar energy) - Detailed numerical examples and problems - MATLAB® applications This book includes a comprehensive and systematic introduction of electric power transmission systems, from basic transmission planning and concepts to various available types of transmission systems. Written particularly for a student or practicing engineer who may want to teach himself or herself, the basic material has been explained carefully, clearly, and in detail with numerous examples, which is also useful for professors. In addition to detailed basic knowledge of transmission lines, new components enabling modern electronics and renewable penetrated transmission systems are emphasized. The discussion goes beyond the usual analytical and qualitative analysis to cover overall aspects of transmission system analysis and design. The enhanced ebook version includes interactive true and false questions, quizzes and homework problems for all the chapters. This book is an invaluable resource which empowers engineers, researchers, and students to navigate the dynamic landscape of electric power transmission system.

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