**DESCRIPTION**

Extended models, methods, and applications in power system risk assessment

*Risk Assessment of Power Systems: Models, Methods, and Applications, Second Edition* fills the gap between risk theory and real-world application. Author Wenyuan Li is a leading authority on power system risk and has more than twenty-five years of experience in risk evaluation. This book offers real-world examples to help readers learn to evaluate power system risk during planning, design, operations, and maintenance activities.

Some of the new additions in the *Second Edition* include:

- New research and applied achievements in power system risk assessment
- A discussion of correlation models in risk evaluation
- How to apply risk assessment to renewable energy sources and smart grids
- Asset management based on condition monitoring and risk evaluation
- Voltage instability risk assessment and its application to system planning

The book includes theoretical methods and actual industrial applications. It offers an extensive discussion of component and system models, applied methods, and practical examples, allowing readers to effectively use the basic concepts to conduct risk assessments.
for power systems in the real world. With every original chapter updated, two new sections added, and five entirely new chapters included to cover new trends, *Risk Assessment of Power Systems* is an essential reference.

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**ABOUT THE AUTHOR**

**DR. WENYUAN LI, PhD,** is recognized as one of the leading authorities on risk assessment of power systems and has been active in power system risk and reliability evaluation for more than twenty-five years. He is a full professor with Chongqing University, China, and a principal engineer at BC Hydro, Canada. He is a fellow of the Canadian Academy of Engineering, the Engineering Institute of Canada, and the IEEE, and received ten international awards due to his significant contributions in the power system risk assessment field.

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**SERIES**

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