



Probabilistic Transmission System Planning

By Wenyuan Li

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The book is composed of 12 chapters and three appendices, and can be divided into four parts. The first part includes Chapters 2 to 7, which discuss the concepts, models, methods and data in probabilistic transmission planning. The second part, Chapters 8 to 11, addresses four essential issues in probabilistic transmission planning applications using actual utility systems as examples. Chapter 12, as the third part, focuses on a special issue, i.e. how to deal with uncertainty of data in probabilistic transmission planning. The fourth part consists of three appendices, which provide the basic knowledge in mathematics for probabilistic planning.

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Editorial Review

Review

"Principle engineer at a Canadian electric company, Li uses his technical reports and papers as a foundation for a comprehensive guide to planning a system to transmit electricity from its generation source to the sub-transmission stations where it enters the distribution system." (Book News, 1 August 2011)

From the Back Cover

A solid reference exploring one of the most important areas in the electric power industry

Transmission planning is one of the most essential activities in the electric power industry, with billions of dollars invested in transmission systems by electric utility companies and governments every year. In the United States alone, the Obama Administration's energy plan is spending about four billion dollars in smart grids and transmission infrastructures.

Systematically discussing probabilistic transmission planning and its applications that make systems smarter, *Probabilistic Transmission System Planning* addresses the concepts, models, methods, data, and various actual issues in probabilistic transmission planning. The probabilistic concept is a main thread throughout the book and touches each chapter. The applied examples are all based on real projects that have been implemented in the utility industry.

All basic aspects in transmission planning are covered, including:

- Load forecast and load modeling
- Conventional and special system analysis techniques
- Reliability evaluation
- Economic assessment
- Data preparation
- Fuzzy techniques for data uncertainty
- Network reinforcement planning
- Retirement planning of network components
- Substation planning
- Single-circuit supply system planning

Major blackout events in power systems in recent years indicate that deterministic methods are not good enough. With probabilistic methods providing planning solutions closer to reality, *Probabilistic Transmission System Planning* presents practicing engineers, researchers, professors, and graduates in the power system field with the latest ideas and methods for enhancing transmission systems.

About the Author

Award-winning author **Wenyuan Li** is well known and highly respected in the field of electrical power engineering. He serves as Principle Engineer at BC Hydro and is a fellow of IEEE and EIC, serving on the editorial board of several international journals. He has published five books and numerous academic papers on power systems.

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