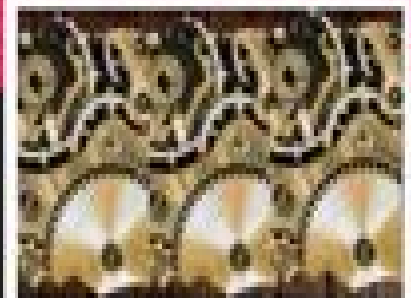


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present book addresses various power system planning issues for professionals as well as senior level and postgraduate students. Its emphasis is on long term issues although much of the ideas may be used for short and mid term cases with some modifications. Back up materials are provided in twelve appendices of the book. The readers can use the numerous examples presented within the chapters and problems at the end of the chapters to make sure that the materials are adequately followed up. Based on what Matlab provides as a powerful package for students and professional some of the examples and the problems are solved in using M files especially developed and attached for this purpose. This adds a unique feature to the book for in depth understanding of the materials sometimes difficult to apprehend mathematically. Chapter 1 provides an introduction to Power System Planning (PSP) issues and basic principles. As most of PSP problems are modeled as optimization problems, optimization techniques are covered in some details in Chapter 2. Moreover, PSP decision makings are based on both technical and economic considerations so economic principles are briefly reviewed in Chapter 3. As a basic requirement of PSP studies, the load has to be known. Therefore, load forecasting is presented in Chapter 4. Single bus Generation Expansion Planning (GEP) problem is described in Chapter 5. This study is performed using WASP IV developed by International Atomic Energy Agency. The study ignores the grid structure. A Multi bus GEP problem is discussed in Chapter 6 in which the transmission effects are somehow accounted for. The results of single bus GEP is used as an input to this problem. SEP problem is fully presented in Chapter 7. Chapter 8 devotes to Network Expansion Planning (NEP) problem in which the network is planned. The results of NEP somehow fix the network structure. Some practical considerations and improvements such as multi voltage cases are discussed in Chapter 9. As NEP study is typically based on some simplifying assumptions and Direct Current Load Flow (DCLF) analysis, detailed Reactive Power Planning (RPP) study is finally presented in Chapter 10 to guarantee acceptable AC LF performance during normal as well as contingency conditions. This somehow concludes the basic PSP problem. The changing environments due to power system restructuring dictate some uncertainties on PSP issues. It is shown in Chapter 11 that how these uncertainties can be accounted for. Although it is intended to be a text book, PSP is a research oriented topic too. That is why Chapter 12 is devoted to research trends in PSP. The chapters conclude with a comprehensive example in Chapter 13 showing the step by step solution of a practical case.

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## **Table of Contents Economics Of Reliability In Electrical Power Systems**

1. Understanding the eBook Economics Of Reliability In Electrical Power Systems
  - The Rise of Digital Reading Economics Of Reliability In Electrical Power Systems
  - Advantages of eBooks Over Traditional Books
2. Identifying Economics Of Reliability In Electrical Power Systems
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Economics Of Reliability In Electrical Power Systems
  - User-Friendly Interface
4. Exploring eBook Recommendations from Economics Of Reliability In Electrical Power Systems
  - Personalized Recommendations
  - Economics Of Reliability In Electrical Power Systems User Reviews and Ratings
  - Economics Of Reliability In Electrical Power Systems and Bestseller Lists
5. Accessing Economics Of Reliability In Electrical Power Systems Free and Paid eBooks
  - Economics Of Reliability In Electrical Power Systems Public Domain eBooks
  - Economics Of Reliability In Electrical Power Systems eBook Subscription Services
  - Economics Of Reliability In Electrical Power Systems Budget-Friendly Options
6. Navigating Economics Of Reliability In Electrical Power Systems eBook Formats
  - ePub, PDF, MOBI, and More
  - Economics Of Reliability In Electrical Power Systems Compatibility with Devices
  - Economics Of Reliability In Electrical Power Systems Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Economics Of Reliability In Electrical Power Systems
  - Highlighting and Note-Taking Economics Of Reliability In Electrical Power Systems
  - Interactive Elements Economics Of Reliability In Electrical Power Systems
8. Staying Engaged with Economics Of Reliability In Electrical Power Systems



- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Economics Of Reliability In Electrical Power Systems
- 9. Balancing eBooks and Physical Books Economics Of Reliability In Electrical Power Systems
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Economics Of Reliability In Electrical Power Systems
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Economics Of Reliability In Electrical Power Systems
  - Setting Reading Goals Economics Of Reliability In Electrical Power Systems
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Economics Of Reliability In Electrical Power Systems
  - Fact-Checking eBook Content of Economics Of Reliability In Electrical Power Systems
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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