
Description: Describing in detail how electrical power systems are planned and designed, this book illustrates the required structures of systems, substations and equipment using international standards and latest computer methods.

Advantages and disadvantages of the different arrangements within switchyards and of the topologies of the power systems are discussed, describing methods to determine the main design parameters of cables, overhead lines, and transformers needed to realize the supply task, as well as the influence of environmental conditions on the design and the permissible loading of the equipment. Additionally, general requirements for protection schemes and the main schemes related to the various protection tasks are given.

With its focus on the requirements and procedures of tendering and project contracting, this book enables the reader to adapt the basics of power systems and equipment design to special tasks and engineering projects.

Contents:
1. Introduction
2. Power System Load
3. Planning Principles and Planning Criteria
4. Economic Consideration and Loss Evaluation
5. Topologies of Electrical Power Systems
6. Arrangement in Gridstations and Substations
7. Transformers
8. Cable Systems
9. Overhead Lines
10. Flexible AC Transmission Systems (FACTS)
11. Load–Flow and Short–Circuit Current Calculation
12. Connection of “Green–Energy” Generation to Power Systems
13. Protection of Equipment and Power System Installations
14. Overvoltages and Insulation Coordination
15. Influence of Neutral Earthing on Single–Phase Short–Circuit Currents
16. Tendering and Contracting

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