



Switchgear and Power System Protection

Ravindra P. Singh

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This comprehensive introduction to system protection covers the underlying principles of operation of switchgear and several relay protective schemes used in power systems and elucidates their important requirements to provide the basis for design criteria. Besides, the book contains a detailed treatment of protective schemes used to encounter fault conditions that may occur individually in generators, motors, transformers, busbars, and distribution circuits. Protection against switching surges and lightning is also discussed.

The final chapter on power system management provides a simple introduction to that important area in order to emphasize the importance of optimal economic operation of power systems in which protective schemes under fault conditions play a crucial role towards continuity of electrical supply with minimum damage to life, equipment and property.

KEY FEATURES

- Provides numerous solved examples and chapter-end exercises to reinforce understanding of concepts.
- Gives MATLAB programs to solve numerical problems.
- Provides more than a hundred fill in the blanks questions with answers under the heading Test Your Knowledge at the end of the book to help students in preparing for the competitive examinations.
- Offers a long list of research papers and books under bibliography to acquaint the researchers with the developments in the field.

The book is appropriate for undergraduate students of electrical engineering for a one-semester course in Power System Protection and Switchgear. It would also be useful to postgraduate students specializing in power engineering, research scholars and practising power engineers.

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