Power System Commissioning and Maintenance Practice. Energy Engineering

Description: Power system reliability and security is highly dependent on the practices employed in both the commissioning and maintenance processes. Both must be to a high standard to ensure that equipment does not enter service with latent deficiencies. This demands engineers who understand the necessary management involved as well as the technical processes. There is very little literature currently available on the subject; a situation which this book seeks to redress.

The subject matter covers high voltage plant and the associated protection and control systems and, although it is essentially targeted at the practicalities of commissioning and maintenance, it also incorporates the underpinning technical theory and design considerations. It is aimed primarily at those who are at the outset of their career in electrical engineering, but additionally provides a thorough reference for more experienced engineers.

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Chapter 2: Maintenance and fault investigations
Chapter 3: Power-system theory
Chapter 4: Circuit breakers
Chapter 5: The power transformer
Chapter 6: Tap change and automatic voltage control
Chapter 7: High-voltage pressure tests
Chapter 8: Underground cables and overhead lines
Chapter 9: Substation power supplies
Chapter 10: Current and voltage transformers
Chapter 11: Switchgear control systems
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Chapter 14: Distance protection
Chapter 15: Unit protection of feeders
Chapter 16: Unit protection of substation plant
Chapter 17: Generator protection
Chapter 18: Intertripping
Chapter 19: On-load tests

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