1. Record Nr. UNICAMPANIAVAN0033092

Autore	Bohémier, Albert
Titolo	Faillite et insolvabilité / Albert Bohémier
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Autore	Confalonieri, Marco
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Autore	Hofmann Wolfgang <1945->
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Reactive Power Demand of Consumers; 2.5.1 Asynchronous Motors; 2.5.2 Transformers; 2.5.3 Control Gear (Ballast) for Gas Discharge Lamps; 2.6 Summary; 3 Effect of Reactive Power on Electricity Generation, Transmission and Distribution; 3.1 Chapter Overview; 3.2 Loading of Generators and Equipment; 3.3 Power System Losses; 3.4 Generators; 3.5 Voltage Drop; 3.5.1 General; 3.5.2 Transferable Power of Lines and Voltage Drop; 3.5.3 Transformer Voltage Drop; 3.6 Available Power of Transformers; 3.7 Summary
4 Reactive Power in Standard Energy Contracts4.1 Chapter Overview; 4.2 Introduction; 4.3 Reactive Energy to be Considered in Standardized Contracts of Suppliers; 4.3.1 Pricing Dependent on Consumed Reactive Energy (kvarh); 4.3.2 Pricing Dependent on Consumed Apparent Energy (kVAh); 4.4 Importance of Reactive Power in Determining the Costs of Connection; 4.5 Summary; Reference; 5 Methods for the Determination of Reactive Power and Power Factor; 5.1 Chapter Overview; 5.2 Methods; 5.2.1 Determination of Power Factor in Single-Phase Grids
5.2.2 Direct Indication of Power Factor by Means of Brueger's Device5. 2.3 Determination of Power Factor in Three-Phase System; 5.2.4 Determination of Power Factor Using Portable Measuring Equipment; 5.2.5 Determination of Power (Factor) via Recorded Data; 5.2.6 Determination of Power Factor by Means of an Active Energy Meter; 5.2.7 Determination of Power Factor by Means of an Active and Reactive Energy Meter; 5.2.8 Determination of Power Factor via the Energy Bill; 5.3 Summary; 6 Improvement of Power Factor; 6.1 Chapter Overview; 6.2 Basics of Reactive Power Compensation
6.3 Limitation of Reactive Power without Phase Shifting6.4 Compensation of Reactive Power by Rotational Phase-Shifting Machines; 6.5 Compensation of Reactive Power by Means of Capacitors; 6.6 Summary; 7 Design, Arrangement and Power of Capacitors; 7.1 Chapter Overview; 7.2 Basics of Capacitors; 7.3 Reactive Power of Capacitors; 7.4 Different Technologies in Manufacturing Capacitors; 7.4.1 Capacitors with Paper Insulation; 7.4.2 Capacitors with Metallized Paper (MP Capacitor); 7.4.3 Capacitors with Metallized Plastic Foils; 7.5 Arrangements and Reactive Power of Capacitors
7.5.1 Capacitors Connected in Parallel

Sommario/riassunto

The comprehensive resource on reactive power compensation, presenting the design, application and operation of reactive power equipment and installations The area of reactive power compensation is gaining increasing importance worldwide. If suitably designed, it is capable of improving voltage quality significantly, meaning that losses in equipment and power systems are reduced, the permissible loading of equipment can be increased, and the over-all stability of system operation improved. Ultimately, energy use and CO2 emisson are reduced. This unique guide discusses the effects of reactive po