



Handbook of Large Turbo-Generator Operation and Maintenance

By Klempner, Geoff; Kerszenbaum, Isidor

Wiley-IEEE Press, 2008. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Preface.Acknowledgments.I. THEORY, CONSTRUCTION, AND OPERATION.1. Principles of Operation of Synchronous Machines.1.1 Introduction to Basic Notions on Electric Power.1.2 Electrical-Mechanical Equivalence.1.3 Alternating Current (ac).1.4 Three-Phase Circuits.1.5 Basic Principles of Machine Operation.1.6 The Synchronous Machine.1.7 Basic Operation of the Synchronous Machine.2. Generator Design and Construction.2.1 Stator Core.2.2 Stator Frame. 2.3 Flux and Armature Reaction. 2.4 Electromagnetics. 2.5 End-Region Effects and Flux Shielding.2.6 Stator Core and Frame Forces.2.7 Stator Windings.2.8 Stator Winding Wedges.2.9 End-Winding Support Systems. 2.10 Stator Winding Configurations. 2.11 Stator Terminal Connections.2.12 Rotor Forging.2.13 Rotor Winding.2.14 Rotor Winding Slot Wedges.2.15 Amor isseur winding. 2.16 Retaining Rings. 2.17 Bore Copper and Terminal Connectors. 2.18 Slip-Collector Rings and Brush Gear. 2.19 Rotor Shrink Coupling. 2.20 Rotor Turning Gear. 2.21 Bearings. 2.22 Air and Hydrogen Cooling.2.23 Rotor Fans.2.24 Hydrogen Containment.2.25 Hydrogen Coolers.References.3. Generator Auxiliary Systems.3.1 Lube-Oil System.3.2 Hydrogen Cooling System.3.3 Seal-Oil System.3.4 Stator Cooling Water System.3.5 Exciter Systems.4. Operation and Control.4.1 Basic Operating Parameters.4.2 Operating Modes.4.3 Machine Curves.4.4 Special Operating Conditions.4.5 Basic Operation Concepts.4.6 System Considerations.4.7 Grid-Induced Torsional Vibrations.4.8 Excitation and Voltage Regulation.4.9 Performance Curves.4.10 Sample of Generator Operating Instructions.References.5. Monitoring and Diagnostics.5.1 Generator Monitoring Philosophies.5.2 Simple Monitoring with Static High-Level Alarm Limits.5.3 Dynamic Monitoring with Load-Varying Alarm Limits.5.4...



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