



Handbook of Large Turbo-Generator Operation and Maintenance

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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

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