



# Handbook of Power System Engineering

By Yoshihide Hase

CBS Publishers & Distributors Pvt. Ltd., 2012. Hardcover. Book Condition: New. First edition. Table of Contents 1 Overhead Transmission Lines and Their Circuit Constants. 2 Symmetrical Coordinate Method (Symmetrical Components). 3 Fault Analysis by Symmetrical Components. 4 Fault Analysis of Parallel Circuit Lines (Including Simultaneous Double Circuit Fault). 5 Per Unit Method and Introduction of Transformer Circuit. 6 The ?--?--0 Coordinate Method (Clarke Components) and Its Application. 7 Symmetrical and ?--?--0 Components As Analytical Tools For Transient Phenomena. 8 Neutral Grounding Methods. 9 Visual Vector Diagrams of Voltages and Currents Under Fault Conditions. 10 Theory of Generators. 11 Apparent Power and Its Expression In The 0--1--2 and D--Q--0 Domains. 12 Generating Power and Steady-State Stability. 13 The Generator As Rotating Machinery. 14 Transient/Dynamic Stability, P--Q--V Characteristics and Voltage Stability of a Power System. 15 Generator Characteristics With Avr and Stable Operation Limit. 16 Operating Characteristics and The Capability Limits of Generators. 17 R--X Coordinates and The Theory of Directional Distance Relays. 18 Travelling-Wave (Surge) Phenomena. 19 Switching Surge Phenomena By Circuit-Breakers and Line Switches. 20 Overvoltage Phenomena. 21 Insulation Coordination. 22 Waveform Distortion and Lower Order Harmonic Resonance. 23 Power Cables. 24 Approaches For Special Circuits. Printed Pages: 576.



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