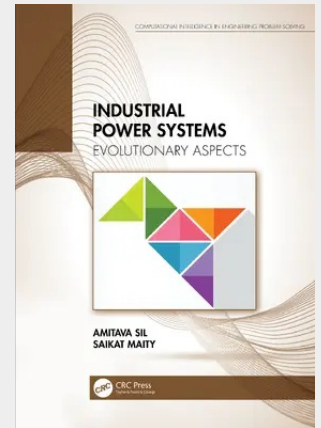


Industrial Power Systems

Evolutionary Aspects

Industrial Power Systems: Evolutionary Aspects provides evolutionary and integrated aspects of industrial power systems including review of development of modern power systems from DC to microgrid. Generation options of thermal and hydro power including nuclear and power from renewables are discussed along with concepts for single-line diagram, overhead transmission lines, concepts of corona, sag, overhead insulators and over voltage protective devices. Subsequent chapters cover analysis of power systems and power system protection with basic concept of power system planning and economic operations. Features: - Covers the fundamentals of power systems, including its design, analysis, market structure and economic operations - Discusses performance of transmission lines with associated parameters, determination of performance and load flow analysis - Reviews residual generation/load imbalance as handled by the automatic generation control (AGC) - Includes different advanced technologies including HTLS overhead conductor, XLPE cable, vacuum/SF6 circuit breaker, solid state relays, among others - Explores practical aspects required for field level work such as installation of cable network for power distribution purposes, types of earthing and tariff mechanism This book will be of interest to graduate students, researchers and professionals in power engineering, load flow and power systems protection.



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