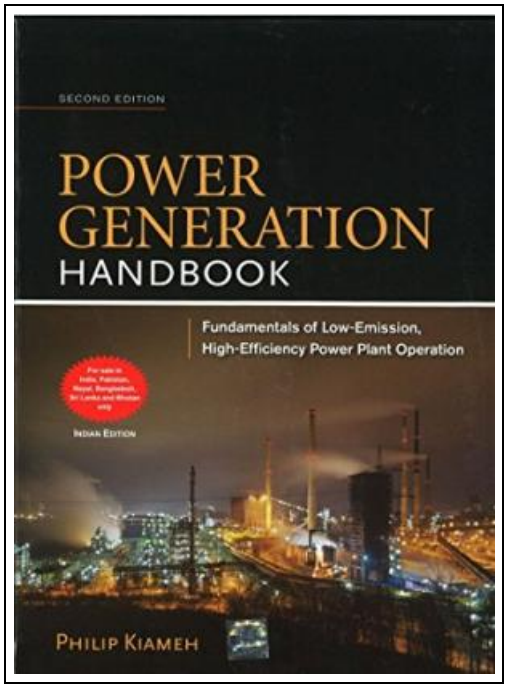
# Power Generation Handbook: Fundamental of Law-Emission, High-Efficiency Power Plant Operation (Second Edition)

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# POWER GENERATION HANDBOOK: FUNDAMENTAL OF LAW-EMISSION, HIGH-EFFICIENCY POWER PLANT OPERATION (SECOND EDITION)

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McGraw Hill Education, 2013. Softcover. Condition: New. 2nd edition. THE DEFINITIVE GUIDE TO POWER GENERATION--FULLY REVISED Updated throughout to cover the latest technologies and applications, Power Generation Handbook, Second Edition, focuses on the basics of power generation using gas turbine, steam, wind, solar, co-generation, and combined-cycle power plants. Other essential topics such as calculations, efficient plant design, emission limits, monitoring, and the economics of power generation are discussed in detail. A real-world case study illustrates the material presented in this authoritative resource. Coverage includes: All components and subsystems of the various types of gas turbine, steam power, co-generation, combined-cycle, wind turbine, solar power, and generator plants Advantages, applications, performance, and economics of low-emission, high-efficiency power plants Selection, operation, and maintenance of gas turbines, steam turbines, valves, compressors, governing systems, combustors, de-aerators, feedwater heaters, transformers, generators, wind turbines and generators, and solar power stations Monitoring and control of all power station environmental emissions Power station performance monitoring and performance enhancement options TABLE OF CONTENTS: 1- REVIEW OF THERMODYNAMICS PRINCIPLES 2- STEAM POWER PLANTS 3- STEAM TURBINE COMPONENTS 4- STEAM TURBINES AND AUXILIARIES 5- POWER STATION PERFORMANCE MONITORING 6- THE TURBINE GOVERNING SYSTEMS 7- STEAM CHESTS AND VALVES 8- TURBINE PROTECTIVE DEVICES 9- TURBINE INSTRUMENTATION 10- LUBRICATION SYSTEMS 11- GLAND SEALING SYSTEM 12- GAS TURBINE FUNDAMENTALS 13- AN OVERVIEW OF GAS TURBINES 14- GAS TURBINE COMPRESSORS 15- GAS TURBINE DESIGN 16- GAS TURBINE CALCULATIONS 17- GAS TURBINE COMBUSTORS 18- AXIAL-FLOW TURBINES 19- GAS TURBINE MATERIALS 20- GAS TURBINE LUBRICATION AND FUEL SYSTEMS 21- GAS TURBINE BEARINGS AND SEALS 22- GAS TURBINE INSTRUMENTATION AND CONTROL SYSTEMS 23- GAS TURBINE PERFORMANCE CHARACTERISTICS 24- GAS TURBINE OPERATING AND MAINTENANCE CONSIDERATIONS 25- GAS TURBINE EMISSION GUIDELINES AND CONTROL METHODS 26- COMBINED CYCLES 27- ABSORPTION CHILLERS 28- SELECTION CONSIDERATIONS OF COMBINED CYCLES AND CO-GENERATION PLANTS 29- APPLICATION...

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