



Turbo Machines Design and Control

By Appu Kuttan

I.K. International Publishing House Pvt. Ltd., 2012. Paperback. Book Condition: New. 18cm x 24cm. Turbomachines: Design and Control is designed to serve as a textbook for undergraduate and postgraduate students of Mechanical Engineering and Aerospace Engineering. It covers the design aspects of thermal power plant, jet engines, wind mill, etc. Major area on the design of turbomachines covers basic design of aerodynamic principle, velocity diagram and its applications in the design of radial and axial flow machines, thermodynamic analysis of the turbomachines. A chapter is included in the design of controller for the speed control of turbomachines which includes classical control theory and multivariable control theory. For basic understanding a chapter on units and dimensions and compressible fluid flow is also included. Key Features: ò Units, dimensions and dimensional analysis, ò Foundations on compressible fluid flow, ò Aerodynamic analysis of body in fluid flow, ò The power equations of turbomachines, ò Velocity diagram and its applications in radial and axial flow machine design, ò Fundamentals of classical control theory applied to turbomachines, ò Application of modern control theory in jet engine control, ò Advance topics such as air breathing engines, rockets, SCRAM jets and flying of birds and insects. The...



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