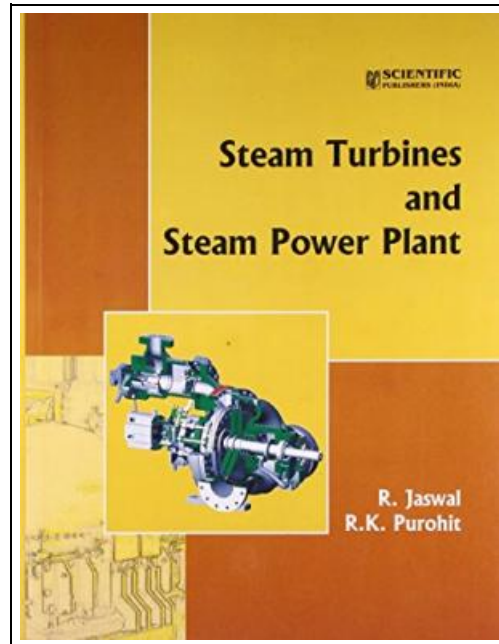


Steam Turbines and Steam Power Plant



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STEAM TURBINES AND STEAM POWER PLANT



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Scientific Publishers, 2012. Softcover. Book Condition: New. This book is in communicable language which exposes the subject in a lucid manner. Theory is explained in a very simple language. Lots of illustrative examples are incorporated to enable the students to thoroughly master the subject. I am sure, they should be better equipped to face RTU examination with confidence. Contents: 1 Steam Turbines: Principles of Working and Velocity Triangles 1.1. Introduction 1.2. Classification of Steam Turbines 1.2.1. Impulse turbine 1.2.2. Impulse-reaction turbines 1.3. The Simple Impulse Turbine 1.3.1. Velocity diagram 1.3.2. The combined inlet and outlet velocity triangles 1.3.3. Work done and axial thrust 1.4. Compounding of Impulse Turbines 1.4.1. The pressure compounded (Rateau) impulse turbine 1.4.2. The velocity compounded (Curtis) impulse turbine 1.4.3. Pressure velocity compounded turbine 1.5. Impulse-Reaction Turbine 1.5.1. Thermodynamic means to reduce the rotor speed - compounding of reaction turbine 1.5.2. Degree of reaction and velocity diagram of reaction turbine 1.5.3. Height of blades of a reaction turbine Illustrative Examples 2. Steam Turbines: Various Efficiencies Energy Losses, Construction Details and Components 2.1. Blading Efficiency 2.2. Optimum Operating Conditions 2.3. Calculations for Velocity Compounded Impulse Turbine 2.3.1. Advantages and limitations 2.4. Optimum blade speed ratio 2.5. Energy Losses in Steam Turbines 2.5.1. Internal Losses 2.5.2. External Losses 2.6. Seals 2.6.1. Labyrinth glands 2.7. Constructional Details of Nozzles and Diaphragms 2.8.1. Manufacturing methods 2.8.2. Material 2.8.3. Mounting turbine moving blades 2.9. Attachment of Blades to Rotor Illustrative Examples Exercises 3. Regenerative and Reheat Cycles 3.1. Introduction 3.2. Limitations of Carnot Cycle for Vapours 3.3. Rankine Cycle 3.3.1. Energy analysis of the ideal Rankine cycle 3.3.2. Actual Rankine Cycle 3.3.3. The effect of operating conditions on Rankine cycle efficiency 3.4. Comparison of Rankine and Carnot Cycles 3.5. Desirable Characteristics of a Good Working Fluid 3.6. Regenerative Feed Heating 3.6.1. Basic...



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