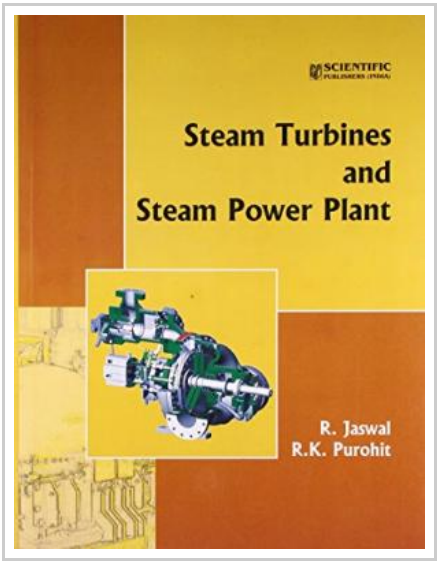

Steam Turbines and Steam Power Plant

By R. Jaswal,R.K. Purohit

Scientific Publishers, 2012. Softcover. Book Condition: New. This book is in communicable language which exposses 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 thurst 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...

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