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Principles of turbomachinery. Assume water is pumped. 1.2 An axial flow pump has a rotor tip diameter 1.5m and hub diameter 0.75m. If the rotational speed is 15rads⁻¹, the axial velocity through the rotor is 10ms⁻¹, sketch the mean diameter velocity triangles and estimate the Euler specific energy>-rise.

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Principles of Turbomachinery in Air-Breathing Engines

Introduction: Basic Principles 1 Take your choice of those that can best aid your action. Shakespeare, Coriolanus 1.1 DEFINITION OF A TURBOMACHINE We classify as turbomachines all those devices in which energy is transferred either to, or from, a continuously flowing fluid by the dynamic action of one or more moving blade rows. The word turbo or

CHAPTER Introduction: Basic Principles 1

Among its features are an emphasis on the role of entropy in assessing machine performance, a timely review of flow structures, revisiting the subsonic and supersonic De Laval nozzle as it applies to bladed turbomachinery components, and an applied review of boundary layer principles.

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In addition to understanding the fluid dynamical principles of turbomachinery, it is important for a turbomachinery design engineer to learn other allied fields. The main ones are material selection, shaft and disk vibration, stress analysis of disks and blades, and topics covering bearings and seals.

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The book introduces the theory and operating principles of turbomachinery in air breathing engines. The book gives a comprehensive coverage of a wide range of topics including basic thermodynamics, fluid mechanics, aerothermodynamics, subsonic and supersonic De Laval nozzle as it applies to bladed turbomachinery components, boundary layer principles, aircraft and space

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