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FUNDAMENTALS OF FLUID MECHANICS Chapter 12 Pumps and Turbines
4 Fluid Mechanics, Thermodynamics of Turbomachinery newton (N), defined as that force which, when applied to a mass of 1kilogram, gives an acceleration to the mass of 1m/s2. The recommended unit of pressure is the pascal (Pa) which is the pressure produced by a force of 1newton uniformly distributed over an area of 1square metre.

Fluid Mechanics, Thermodynamics of Turbomachinery
definition of a turbomachine, the fundamental laws of flow continuity, the energy and entropy equations are introduced as well as the all-important Euler work equation. In addition, the proper- ties of working fluids other than perfect gases are covered and a steam chart is included in the

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Each vane deflects fluid by an angle of 135 ◦ as indicated. Assume all of the flow occurs in a horizontal plane. Each of the four jets shown strikes a vane with a velocity of 100ft / s and a stream diameter of 1 in. The magnitude of velocity of the jet remains constant along the vane surface.

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