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Fundamentals of Momentum, Heat and Mass Transfer (Fifth Edition)

By Rohrer, Welty, Wicks, Wilson

Wiley India Pvt. Ltd, 2012. Softcover. Book Condition: New. 5th or later edition. 18 x 24 cm. Momentum (fluid) mechanics is a branch of physics that studies liquids and gases at rest and in motion. The study is applied in the fields of hydro and aerodynamics. Heat transfer is a branch of thermal physics that deals with the movement of heat from one object to another through conduction (movement of heat from high to low temperature because of a molecular reaction), convection (movement due to air flow), and heat radiation (energy radiated through electromagnetic waves). Mass transfer is the process that involves the molecular and convective transport of molecules in physical systems and examines phenomena such as the evaporation of water into the atmosphere. Chapter 1: Introduction to Momentum Transfer Chapter 2: Fluid Statics Chapter 3: Description of a Fluid in Motion Chapter 4: Conservation of Mass: Control-Volume Approach Chapter 5: Newton's Second Law of Motion: Control-Volume Approach Chapter 6: Conservation of Energy: Control-Volume Approach Chapter 7: Shear Stress in Laminar Flow Chapter 8: Analysis of a Differential Fluid Element in Laminar Flow Chapter 9: Differential Equations of Fluid Flow Chapter 10: Inviscid Fluid Flow Chapter 11: Dimensional Analysis and...



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