

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



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## FUNDAMENTALS OF MOMENTUM, HEAT AND MASS TRANSFER (FIFTH EDITION)



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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 gasses 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 though 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 Similitude Chapter 12: Viscous Flow Chapter 13: Flow in Closed Conduits Chapter 14: Fluid Machinery Chapter 15: Fundamentals of Heat Transfer Chapter 16: Differential Equations of Heat Transfer Chapter 17: Steady-State Conduction Chapter 18: Unsteady-State Conduction Chapter 19: Convective Heat Transfer Chapter 20: Convective Heat-Transfer Correlations Chapter 21: Boiling and Condensation Chapter 22: Heat-Transfer Equipment Chapter 23: Radiation Heat Transfer Chapter 24: Fundamentals of Mass Transfer Chapter 25: Differential Equations of Mass Transfer Chapter 26: Steady-State Molecular Diffusion Chapter 27: Unsteady-State Molecular Diffusion Chapter 28: Convective Mass Transfer Chapter 29: Convective Mass Transfer Between Phases Chapter 30: Convective Mass-Transfer Correlations...



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