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The book provides a unified treatment of momentum transfer (fluid mechanics), heat transfer, and mass transfer. This new edition has been updated to include more coverage of modern topics such as biomedical/biological applications as well as an added separations topic on membranes. Additionally, the fifth edition focuses on an explicit problem-solving methodology that is thoroughly and consistently implemented throughout the text. 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 Chapter 31: Mass-Transfer Equipment

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