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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: Fundmentals 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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"Momentum transfer in a fluid involves the study of the motion of fluids and the forces that produce these motions. From Newton's second law of motion it is known that force is directly related to the time rate of change of momentum of a system. Excluding action-at-a-distance forces, such as gravity, the forces acting on a fuid, such as those resulting from pressure and shear stress, may be shown to be the result of microscopic (molecular) transfer of momentum. Thus, the subject under consideration, which is historically fluid mechanics, may equally be termed momentum transfer. The history of fluid mechanics shows the skillful blending of the nineteenth- and twentieth-century analytical work in hydrodynamics with the empirical knowledge in hydraulics that man has collected over the ages. The mating of these separately developed disciplines was started by Ludwig Prandtl in 1904 with his boundary-layer theory, which was verifed by experiment. Modern fluid mechanics, or momentum transfer, is both analytical and experimental"--