



Introduction to Fluid Mechanics: includes CD

By Shaughnessy, Edward J.; Katz, Ira M.; Schaffer, James P.

Oxford University Press, 2004. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Each chapter ends with a summary and problems.PrefacePART 1: FUNDAMENTALS1. Fundamental Concepts1.1. Introduction1.2. Gases, Liquids, and Solids1.3. Methods of Description 1.3.1. Continuum Hypothesis 1.3.2. Continuum and Noncontinuum Descriptions 1.3.3. Molecular Description 1.3.4. Lagrangian Description 1.3.5. Eulerian Description 1.3.6. Choice of Description 1.4. Dimensions and Unit Systems1.4.1. Systems1.4.2. Systems1.4.3. Systems1.4.4. Preferred Unit Systems1.4.5. Unit Conversions1.5. Problem Solving2. Fluid Properties2.1. Introduction2.2. Mass, Weight, and Density2.2.1. Specific Weight2.2.2. Specific Gravity2.3. Pressure2.3.1. Pressure Variation in a Stationary Fluid2.3.2. Manometer Readings2.3.3. Buoyancy and Archimedes" Principle2.3.4. Pressure Variation in a Moving Fluid2.4. Temperature and Other Thermal Properties2.4.1. Specific Heat2.4.2. Coefficient of Thermal Expansion 2.5. The Perfect Gas Law 2.5.1. Internal Energy, Enthalpy, and Specific Heats of a Perfect Gas2.5.2. Limits of Applicability 2.6. Bulk Compressibility Modulus 2.6.1. Speed of Sound2.7. Viscosity2.7.1. Viscous Dissipation2.7.2. Bulk Viscosity2.8. Surface Tension2.8.1. Pressure Jump Across a Curved Interface2.8.2. Contact Angle and Wetting2.8.3. Capillary Action2.9. Fluid Energy2.9.1. Internal Energy2.9.2. Kinetic Energy2.9.3. Potential Energy2.9.4. Total Energy3. Case Studies in Fluid Mechanics 3.1. Introduction 3.2. Common Dimensionless Groups in Fluid Mechanics3.3. Case Studies3.3.1. Flow in a Round Pipe3.3.2. Flow Through Area Change3.3.3. Pump and Fan

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