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Engineering Fluid Mechanics

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Wiley, 2008. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: PREFACE.CHAPTER 1 Introduction.1.1 Liquids and Gases.1.2 The Continuum Assumption.1.3 Dimensions, Units, and Resources.1.4 Topics in Dimensional Analysis.1.5 Engineering Analysis.1.6 Applications and Connections.CHAPTER 2 Fluid Properties.2.1 Properties Involving Mass and Weight.2.2 Ideal Gas Law.2.3 Properties Involving Thermal Energy.2.4 Viscosity.2.5 Bulk Modulus of Elasticity.2.6 Surface Tension.2.7 Vapor Pressure.2.8 Summary.CHAPTER 3 Fluid Statics.3.1 Pressure.3.2 Pressure Variation with Elevation.3.3 Pressure Measurements.3.4 Forces on Plane Surfaces (Panels).3.5 Forces on Curved Surfaces.3.6 Buoyancy.3.7 Stability of Immersed and Floating Bodies.3.8 Summary.CHAPTER 4 Flowing Fluids and Pressure Variation.4.1 Descriptions of Fluid Motion.4.2 Acceleration.4.3 Euler's Equation.4.4 Pressure Distribution in Rotating Flows.4.5 The Bernoulli Equation Along a Streamline.4.6 Rotation and Vorticity.4.7 The Bernoulli Equation in Irrotational Flow.4.8 Separation.4.9 Summary.CHAPTER 5 Control Volume Approach and Continuity Equation.5.1 Rate of Flow.5.2 Control Volume Approach.5.3 Continuity Equation.5.4 Cavitation.5.5 Differential Form of the Continuity Equation.5.6 Summary.CHAPTER 6 Momentum Equation.6.1 Momentum Equation: Derivation.6.2 Momentum Equation: Interpretation.6.3 Common Applications.6.4 Additional Applications.6.5 Moment-of-Momentum Equation.6.6 Navier-Stokes Equation.6.7 Summary.CHAPTER 7 The Energy Equation.7.1 Energy Work.

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