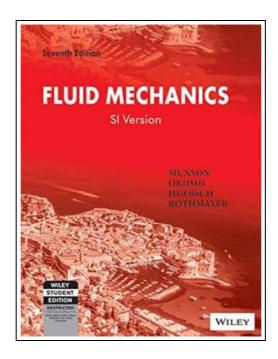
Fluid Mechanics (Seventh Edition)



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Reviews

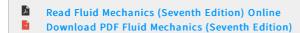
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FLUID MECHANICS (SEVENTH EDITION)



Wiley India Pvt. Ltd, 2015. Softcover. Condition: New. 5th or later edition. Fundamentals of Fluid Mechanics offer comprehensive topical coverage, with varied examples and problems, application of visual component of fluid mechanics and strong focus on effective learning. The text enables the gradual development of confidence in problem solving. The authors have designed their presentation to enable the gradual development of reader confidence in problem solving. Each important concept is introduced in easy-to-understand terms before more complicated examples are discussed. Introduction 1.1 Some Characteristics of Fluids 1.2 Dimensions, Dimensional Homogeneity and Units 1.3 Analysis of Fluid Behavior 1.4 Measures of Fluid Mass and Weight 1.5 Ideal Gas Law 1.6 Viscosity 1.7 Compressibility of Fluids 1.8 Vapor Pressure 1.9 Surface Tension 1.10 A Brief Look Back in History 1.11 Chapter Summary and Study Guide 2 Fluid Statics 2.1 Pressure at a Point 2.2 Basic Equation for Pressure Field 2.3 Pressure Variation in a Fluid at Rest 2.4 Standard Atmosphere 2.5 Measurement of Pressure 2.6 Manometry 2.7 Mechanical and Electronic Pressure-Measuring Devices 2.8 Hydrostatic Force on a Plane Surface 2.9 Pressure Prism 2.10 Hydrostatic Force on a Curved Surface 2.11 Buoyancy, Flotation and Stability 2.12 Pressure Variation in a Fluid with Rigid-Body Motion 2.13 Chapter Summary and Study Guide 3 Elementary Fluid Dynamics--The Bernoulli Equation 3.1 Newton's Second Law 3.2 F ma along a Streamline 3.3 F ma Normal to a Streamline 3.4 Physical Interpretation 3.5 Static, Stagnation, Dynamic and Total Pressure 3.6 Examples of Use of the Bernoulli Equation 3.7 The Energy Line and the Hydraulic Grade Line 3.8 Restrictions on Use of the Bernoulli Equation 3.9 Chapter Summary and Study Guide 4 Fluid Kinematics 4.1 The Velocity Field 4.2 The Acceleration Field 4.3 Control Volume and System Representations 4.4 The Reynolds Transport Theorem 4.5 Chapter Summary and Study...



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