



Engineering Fluid Mechanics (English Edition)

By Guo Chuwen

China Mining University Press, 2011. Soft cover. Book Condition: New. 1st Edition. Pages:299 Format:20 x 14 x 1.6 cm Weight:299 g Language: English This book could be used as textbook for bilingual course in power engineering, environmental engineering and related majors. Its main contents include fluids and their properties, fluid statics, fluid dynamics, similitude and dimensional analysis, viscous flow and hydraulic calculation, vortex flow, irrotational flow, introduction to theory of boundary layer, and introduction to aerodynamics. Contents: 1 Fluids and Their Properties 1.1 Definition of Fluids 1.2 Fluid as a Continuum 1.3 Inertia of Fluids 1.4 Compressibility and Expansibility of Fluids 1.5 Viscosity of Fluids 1.6 Surface Tension Problems for Chapter 1 2 Fluid Statics 2.1 Forces Exerted on Fluids 2.2 Static Pressure of Fluids and Its Properties 2.3 Basic Equation of Fluids Statics 2.4 Measurement of Pressure 2.5 Relative Equilibrium of Liquid 2.6 Forces Acting on a Plane Due to Hydrostatic Pressure 2.7 Forces Acting on a Curved Surface Due to Hydrostatic Pressure 2.8 Buoyancy and Stability of Floating Bodies Problems for Chapter 2 3 Fluid Dynamics 3.1 Basic Concepts of Flow 3.2 Flow Descriptions 3.3 Reynolds" Transport Theorem 3.4 Equation of Continuity 3.5 Momentum Equation 3.6 Moment-of-momentum Equation...



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