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Gas dynamics basis [Paperback]

By WANG XIN YUE

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Paperback. Publisher: Northwestern Polytechnical University; 1 (May 1, 2006) This textbook introduces the basic concepts of compressible fluid dynamics, the basic equations and solution methods. A total of 12 chapters of the book introduces the basic theory and basic knowledge of fluid mechanics, focusing on the properties of compressible fluid, pneumatic functions, the expansion waves in supersonic flow, shock wave theory, and Dimensional Steady pipe flow theory; describes the ideal fluid dynamics theory and methods, the basic equations of the viscous fluid and the boundary layer theory; briefly describes the potential flow theory, similarity theory and the special problems of hypersonic flow. The book can be used as a basic course in engineering colleges relevant professional materials, are also available for machinery, energy, shipbuilding, and chemical engineering and technical personnel of the department reference. Contents: Introduction to the first chapter of the fluid physical properties and flow model 1.1 1.1.1 The continuity of the continuum model assumption 1.1.2 continuous medium at a point parameter definition 1.2 compression and expansion of the fluid 1.2.1 Fluid compressibility 1.2. 2 fluid transport..



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