

Gas Dynamics, Fourth Edition

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Reviews

Extremely helpful to any or all category of individuals. It really is rally fascinating throgh studying time period. I am just quickly could possibly get a pleasure of reading a composed ebook. (Lawrence Keeling)

GAS DYNAMICS, FOURTH EDITION



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PHI Learning, 2012. Softcover. Book Condition: New. 4th edition. 16 x 24 cm. This revised and updated fourth edition continues to provide the most accessible and readable approach to the study of all the vital topics and issues associated with gas dynamic processes. At every stage, the physics governing the process, its applications and limitations are discussed in depth. With a strong emphasis on the basic concepts and problem-solving skills, this text is suitable for a course on Gas Dynamics/Compressible Flows/High-speed Aero-dynamics at both undergraduate and postgraduate levels in aerospace engineering, mechanical engineering, chemical engineering and applied physics. The elegant and concise style of the book, along with illustrations and worked examples, makes it eminently suitable for self-study by scientists and engineers working in the field of gas dynamics in industries and research laboratories. Some of the Distinguishing Features of the Book : Concise coverage of the thermodynamic concepts to serve as a revision of the background material. Logical and systematic treatment of fundamental aspects of gas dynamics, waves in the supersonic regime and gas dynamic processes. In-depth presentation of potential equations for compressible flows, similarity rule and twodimensional compressible flows. Introduction to measurements in compressible flows and optical flow visualization techniques. Introduction to rarefied gas dynamics and high-temperature gas dynamics. Solution Manual for instructors containing the complete worked-out solutions to chapter-end problems. New to the Fourth Edition : Some vital aspects associated with the compression and expansion waves are explained, with suitable worked numerical examples. A brief section on critical Mach number is added in Chapter 8, highlighting its influence on the aerodynamic efficiency of flying mechanics. Nozzle flow process has been illustrated with worked examples focusing on the design and application aspects. A considerable number of worked examples are added, focusing attention on the design aspects. Some new...

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