



Analytical Fluid Dynamics, Third Edition (Hardback)

By George Emanuel

Taylor Francis Inc, United States, 2015. Hardback. Condition: New. 3rd New edition. Language: English . Brand New Book. New Edition Now Covers Shock-Wave Analysis An in-depth presentation of analytical methods and physical foundations, Analytical Fluid Dynamics, Third Edition breaks down the how and why of fluid dynamics. While continuing to cover the most fundamental topics in fluid mechanics, this latest work emphasizes advanced analytical approaches to aid in the analytical process and corresponding physical interpretation. It also addresses the need for a more flexible mathematical language (utilizing vector and tensor analysis and transformation theory) to cover the growing complexity of fluid dynamics. Revised and updated, the text centers on shock-wave structure, shock-wave derivatives, and shock-produced vorticity; supersonic diffusers; thrust and lift from an asymmetric nozzle; and outlines operator methods and laminar boundary-layer theory. In addition, the discussion introduces pertinent assumptions, reasons for studying a particular topic, background discussion, illustrative examples, and numerous end-of-chapter problems. Utilizing a wide variety of topics on inviscid and viscous fluid dynamics, the author covers material that includes: Viscous dissipation The second law of thermodynamics Calorically imperfect gas flows Aerodynamic sweep Shock-wave interference Unsteady one-dimensional flow Internal ballistics Force and momentum balance The Substitution Principle Rarefaction shock waves A comprehensive treatment of flow property derivatives just...



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