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Compressible flow (or gas dynamics) is the branch of fluid mechanics that deals with flows having significant changes in fluid density. While all flows are compressible, flows are usually treated as being incompressible when the Mach number (the ratio of the speed of the flow to the speed of sound) is less than 0.3 (since the density change due to velocity is about 5% in that case). [1]

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Description. Compressible flow effects are encountered in numerous engineering applications involving high speed flows and/or flows with large pressure differences, e.g. gas turbines, steam turbines, internal combustion engines, Stirling engines, rocket engines, high-speed aerodynamics, high speed propellers, gas pipe flows, etc.

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Modern Compressible Flow by John D. Anderson Anderson ' s book
provides the most accessible approach to compressible flow for
Mechanical and Aerospace Engineering students and professionals. In
keeping with previous versions, the 3rd edition uses numerous
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Compressible flow - Wikipedia

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Fundamentals of Compressible Flow - Course

A Mach wave is an infinitesimal, or very weak, disturbance that is propagating like a sound wave in compressible flow (essentially an acoustic disturbance). The angle of a Mach wave, μ , is calculated by the Mach wave geometry as: $\mu = \arcsin \frac{1}{M}$

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The course begins with the basics of compressible fluid dynamics, including governing equations, thermodynamic context and characteristic parameters. The next large block of lectures covers quasi-

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one-dimensional flow, followed by a discussion of disturbances and unsteady flows. The second half of the course comprises gas dynamic discontinuities, including shock waves and detonations, and ...

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The following are solutions to the problems found in Chapter 1 of John D. Anderson's 2004 book Modern Compressible Flow. At the

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nose of a missile in flight, the pressure and temperature are 5.6 atm and 850 ° R, respectively. Calculate the density and specific volume.

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