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flow theory are found in the design of aircrafts and in the

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operation of devices used in gas turbines, reciprocating engines, stream turbines, natural gas transmission lines, and combustion chambers (see [1]).

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Chapter 9 • Compressible Flow 667 9.57 Air flows from a tank through a nozzle into the standard atmosphere, as in Fig. P9.57. A normal shock stands in the exit of the nozzle, as shown. Estimate (a) the tank pressure; and (b) the mass flow. Solution: The throat must be sonic, and the area ratio at the shock gives the Mach number: Fig. P9.57 2 ...

Chapter 9 Compressible Flow 667 - Web Space

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Compressible flow 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 is less than 0.3. The study of compressible flow is relevant to high-speed aircraft, jet engines, rocket motors, high-speed entry into a planetary atmosphere, gas pipelines, commercial applications such as abrasive blasting, and many other fields.

Compressible flow - Wikipedia

This is the second textbook by Oosthuizen that I've used and it provides a good and comprehensive introduction to 1-D compressible fluid flow. Oosthuizen develops all

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of the fundamental equations in a straight forward manner and there are a sufficient number of worked examples that are oriented towards applications in other fields of ...

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