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Cooling, Storage and
Fleet Fueling Supersonic
Speed and Shock Waves

2. Deformation of
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indispensable book for students in mechanical, aerospace, and chemical engineering courses, as well as aerospace engineers. About the Author ROBERT D. ZUCKER, P H D, is Professor Emeritus of Aeronautics and Astronautics at the Naval Postgraduate School in Monterey, California.

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maintains the focus on gas flows below hypersonic. This targeted approach provides a cohesive and rigorous examination of most practical engineering problems in this gas dynamics flow regime.

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You don't need much background to enter the fascinating world of gas dynamics. However, it will be assumed that you have been exposed to college-level courses in calculus and thermodynamics.

Specifically, you are expected to know: 1. Simple differentiation

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and integration 2. The
meaning of a partial
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The form of the perfect gas equation normally used in gas dynamics is $p = \rho RT$ (1.13) where p absolute pressure lbf/ft² or N/m² density lbm/ft³ or kg/m³ T absolute temperature R or K R individual gas constant ft-lbf/lbm-R or N m/kg K

The individual gas constant is found in the English Engineering system by dividing 1545

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by the molecular mass of
the gas chemical
constituents.

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