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Fundamentals Of Gas

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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You don't need much background to enter the fascinating world of gas dynamics. However, it will be

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assumed that you have been exposed to college-level courses in calculus and thermodynamics. Specifically, you are expected to know: 1. Simple differentiation and integration 2. The meaning of a partial derivative 3. The significance of a dot product

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Individual gas constant $\text{ft}\cdot\text{lbf}/\text{lbm}\cdot\text{R}$ or $\text{N}\cdot\text{m}/\text{kg}\cdot\text{K}$ The individual gas constant is found in the English Engineering system by dividing 1545 by the molecular mass of the gas chemical constituents.

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