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### Fundamentals Of Gas Dynamics Zucker

Fundamentals of Gas Dynamics, Second Edition is an 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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This book is written for the average student who wants to learn the fundamentals of gas dynamics. It aims at the undergraduate level and thus requires a minimum of prerequisites. The writing style is informal and incorporates ideas in educational technology such as behavioral objectives, meaningful summaries, and check tests.

### FUNDAMENTALS OF GAS DYNAMICS

The form of the perfect gas equation normally used in gas dynamics is  $p = RT$  (1.13) where  $p$  absolute pressure lbf/ft<sup>2</sup> or N/m<sup>2</sup> density lbf/ft<sup>3</sup> or kg/m<sup>3</sup>  $T$  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 by the molecular mass of the gas chemical constituents.

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Then, there is a chapter dedicated to each of the classical topics of gas dynamics: flow through a nozzle, normal shock wave, oblique shock wave, Prandtl-Meyer Flow, Fanno Flow, Rayleigh Flow. At the end, there is a chapter about real effect and a application chapter about propulsion systems. One person found this helpful

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