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Fundamentals Of Gas Dynamics Solution Manual

These are a set of class notes for a gas dynamics/viscous flow course taught to juniors in Aerospace Engineering at the University of Notre Dame during the mid 1990s. The course builds upon foundations laid in an earlier course where the emphasis was on subsonic ideal flows.

LECTURENOTESON GASDYNAMICS

Covering the general principles of gas dynamics to provide a working understanding of the essentials of gas flow, the contents of this book form the foundation for a study of the specialized literature and should give the necessary background for reading original papers on the subject. ... Fundamentals of Gas Dynamics Robert D. Zucker. 4.9 out ...

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gas constant and the ratio of specific heats of oxygen. The units are: pressure N/m2, temperature K, area m2 and mass flow rate kg/s. Assuming that the temperature of the oxygen in the bottle does not change with time, determine the time it takes to reduce the pressure to one half of its initial value. V=0.1 m3 p1 =10 MPa T1 =293K =T2 =5 MPa kg K J

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FUNDAMENTALS OF GAS DYNAMICS Second Edition ROBERT D. ZUCKER OSCAR BIBLARZ Department of Aeronautics and Astronautics Naval Postgraduate School Monterey, California JOHN WILEY & SONS, INC. Contents PREFACE TO THE STUDENT 1 REVIEW OF ELEMENTARY PRINCIPLES 1.1 1.2 1.3 1.4

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