

## Fundamentals Of Gas Dynamics Solutions Manual

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gas constant and the ratio of specific heats of oxygen. The units are: pressure N/m<sup>2</sup>, temperature K, area m<sup>2</sup> 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.  $\gamma = 0.1$  m<sup>3</sup> p<sub>1</sub> = 10 MPa T<sub>1</sub> = 293K = T<sub>2</sub> p<sub>2</sub> = 5 MPa kg K J

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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 and integration 2. The meaning of a partial derivative 3. The significance of a dot product

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