Chapter I

Introduction: Basic Principles

1.1/a) Air flows adiabatically through a long straight circular section duct, 0.25 m diameter at a measured mass flow rate of 40 kg/s. At a particular section along the duct the values of static temperature F = 150° C and static pressure p = 550 kFs. Determine the average velocity of the airflow and its standard temperature.

(b) At another station further along the duct, measurements reveal that the static temperature has dropped to 147°C as a consequence of wall friction. Determine the average velocity and the static pressure of the airflow at this station.

Also determine the change in entropy per unit of mass flow between the two stations.

For air assume that $\theta = 28767(xg8)$ and y = 1.4

Solution

(a) Fepre the gas law

$$\rho_1 = \frac{\rho_1}{RT} = \frac{550 \times 10^4}{287 \times 423} = 4.53 \text{ kg/m}^4$$

From the conservation of mass law

$$c_1 = \frac{dr}{\rho A} = \frac{40}{4.53 \times 0.04908} = 180 \text{ m/s Ans.}$$

where
$$A = \left(\frac{\pi}{4}\right) d^3 = 0.04908 \text{ m}^3$$

from the conservation of energy equation the stagnation temperature is

$$T_{\rm in} = T_{\rm i} + \frac{c_{\rm i}^{-2}}{2C_{\rm o}} = 423 + \frac{179.9^2}{2 \times 1004.5} = 479.1 \text{ K.Ans.}$$

As the flow is adiabatic, the energy of the air is conserved along the pipe, and $A_{i,i} = A_{i,i}$

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