

A blower handles 1 kg/s of air at 20°C and consumes a power of 15 kW. The inlet and outlet velocities of air are 100 m/s and 150 m/s respectively. Find the exit air temperature, assuming adiabatic conditions. Take c_p of air as 1.005 kJ/kg-K.

$$\dot{m}_1 = \dot{m}_2 = \dot{m} = 1 \text{ kg/s}$$

$$t_1 = 20^\circ\text{C}$$

$$\dot{W}_2 = -15 \text{ kW}$$

$$V_1 = 100 \text{ m/s}$$

$$V_2 = 150 \text{ m/s}$$

$$t_2 = ?$$

$$Q = 0$$

$$c_p = 1.005 \text{ kJ/kg-K}$$

$$\dot{Q}_{gen} = \dot{m} c_p (t_2 - t_1)$$

$$\dot{Q}_{gen} = h_2 - h_1$$

$$h_1 + \frac{V_1^2}{2} + gz_1 + \frac{Q}{\dot{m}} = h_2 + \frac{V_2^2}{2} + gz_2 + \frac{\dot{W}_2}{\dot{m}}$$

$$h_1 + \frac{100^2}{2} + 9.81 \cancel{z_1} + 0 = h_2 + \frac{150^2}{2} + 9.81 \cancel{z_1} + \left(\frac{-15000}{1} \right)$$

$$h_2 - h_1 = \dot{Q}_{gen} = 8750 \text{ W}$$



First Law Of Thermodynamics Problems Solutions

**Peter Atkins,Julio dePaula,Ron
Friedman**



First Law Of Thermodynamics Problems Solutions:

First Law Of Thermodynamics Problems Solutions Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**First Law Of Thermodynamics Problems Solutions**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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web 3 prohibited substance shall have the meaning set out in the fa rules the rules shall mean the statutes and regulations of fifa and uefa the fa rules the league rules the code of practice and the club rules strip shall mean all versions from time to time of the club s official football clothing including shirts shorts socks and or training kit track suits

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