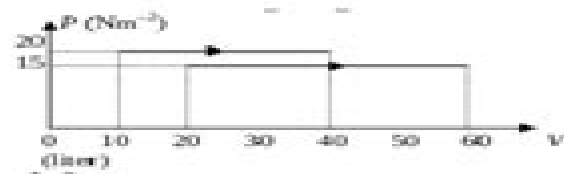


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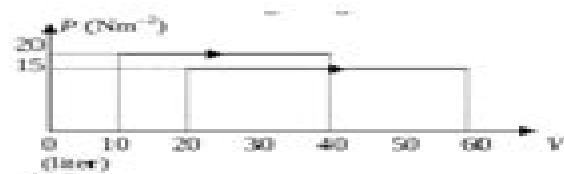


Thermodynamics – problems and solutions

The first law of thermodynamics

1. Based on graph P-V below, what is the ratio of the work done by the gas in the process I, to the work done by the gas in the process II?

Known :



Process 1 :

Pressure (P) = 20 N/m^2

Initial volume (V_1) = 10 liter = $10 \text{ dm}^3 = 10 \times 10^{-3} \text{ m}^3$

Final volume (V_2) = 40 liter = $40 \text{ dm}^3 = 40 \times 10^{-3} \text{ m}^3$

Process 2 :

Process (P) = 15 N/m^2

Initial volume (V_1) = 20 liter = $20 \text{ dm}^3 = 20 \times 10^{-3} \text{ m}^3$

Final volume (V_2) = 60 liter = $60 \text{ dm}^3 = 60 \times 10^{-3} \text{ m}^3$

Wanted : The ratio of the work done by gas

Solution :

Thermodynamics Problems And Solutions

Joseph Kestin



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