
Solution Manual Chapra Numerical Methods Engineers Pdf Download

CHAPTER 1

1.1 For body weight:

$$4.5 + 4.5 + 12 + 4.5 + 33 + IW = 60$$

$$IW = 1.5\%$$

For total body water:

$$7.5 + 7.5 + 20 + 7.5 + 2.5 + IW = 100$$

$$IW = 55\%$$

1.2

$$Q_{\text{students}} = 30 \text{ ind} \times 80 \frac{\text{J}}{\text{ind s}} \times 15 \text{ min} \times 60 \frac{\text{s}}{\text{min}} \times \frac{\text{kJ}}{1000 \text{ J}} = 2160 \text{ kJ}$$

$$m = \frac{PVMwt}{RT} = \frac{(101.325 \text{ kPa})(10\text{m} \times 8\text{m} \times 3\text{m} - 30 \times 0.075 \text{ m}^3)(28.97 \text{ kg/kmol})}{(8.314 \text{ kPa m}^3 / (\text{kmol K}))((20 + 273.15)\text{K})} = 286.3424 \text{ kg}$$

$$\Delta T = \frac{Q_{\text{students}}}{mC_v} = \frac{2160 \text{ kJ}}{(286.3424 \text{ kg})(0.718 \text{ kJ}/(\text{kg K}))} = 10.50615 \text{ K}$$

Therefore, the final temperature is $20 + 10.50615 = 30.50615^\circ\text{C}$.

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