

Chapter 2

Introduction to Engineering Calculations

2.1 Unit conversion

(a)

From Table A.9 (Appendix A): $1 \text{ cP} = 10^{-3} \text{ kg m}^{-1} \text{ s}^{-1}$

$1 \text{ m} = 100 \text{ cm}$

Therefore:

$$1.5 \times 10^{-6} \text{ cP} = 1.5 \times 10^{-6} \text{ cP} \cdot \left| \frac{10^{-3} \text{ kg m}^{-1} \text{ s}^{-1}}{1 \text{ cP}} \right| \cdot \left| \frac{1 \text{ m}}{100 \text{ cm}} \right| = 1.5 \times 10^{-11} \text{ kg s}^{-1} \text{ cm}^{-1}$$

Answer: $1.5 \times 10^{-11} \text{ kg s}^{-1} \text{ cm}^{-1}$

(b)

From Table A.8 (Appendix A): $1 \text{ hp (British)} = 42.41 \text{ Btu min}^{-1}$

Therefore:

$$0.122 \text{ hp} = 0.122 \text{ hp} \cdot \left| \frac{42.41 \text{ Btu min}^{-1}}{1 \text{ hp}} \right| = 5.17 \text{ Btu min}^{-1}$$

Answer: $5.17 \text{ Btu min}^{-1}$

(c)

$1 \text{ min} = 60 \text{ s}$

rpm means revolutions per minute. As revolutions is a non-dimensional quantity (Section 2.1.2), the units of rpm are min^{-1} . Therefore:

$$10,000 \text{ min}^{-1} = 10,000 \text{ min}^{-1} \cdot \left| \frac{1 \text{ min}}{60 \text{ s}} \right| = 167 \text{ s}^{-1}$$

Answer: 167 s^{-1}

(d)

From Table A.8 (Appendix A): $1 \text{ W} = 1 \text{ J s}^{-1}$

From Table A.7 (Appendix A): $1 \text{ J} = 9.869 \times 10^{-3} \text{ l atm}$

From Table A.1 (Appendix A): $1 \text{ m} = 3.281 \text{ ft}$

$1 \text{ min} = 60 \text{ s}$

As explained in Section 2.4.6, $^{\circ}\text{C}^{-1}$ is the same as K^{-1} . Therefore:

$$\begin{aligned} 4335 \text{ W m}^{-2} ^{\circ}\text{C}^{-1} &= 4335 \text{ W m}^{-2} ^{\circ}\text{C}^{-1} \cdot \left| \frac{1 \text{ J s}^{-1}}{1 \text{ W}} \right| \cdot \left| \frac{9.869 \times 10^{-3} \text{ l atm}}{1 \text{ J}} \right| \cdot \left| \frac{60 \text{ s}}{1 \text{ min}} \right| \cdot \left| \frac{1 \text{ m}}{3.281 \text{ ft}} \right|^2 \\ &= 238.451 \text{ l atm min}^{-1} \text{ ft}^{-2} \text{ K}^{-1} \end{aligned}$$

Answer: $238.1 \text{ l atm min}^{-1} \text{ ft}^{-2} \text{ K}^{-1}$

Solutions Key Manual

Michael Seilmaier

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