

Solutions For Homework #1

Problem 1:

c is the speed of light, λ is the wavelength and f is the frequency. The equation $c = \lambda \cdot f$ can be used to calculate one of the three values, if the other two are given. The speed of light is defined to be exactly 299792458 m/s or 3.00 $\times 10^8$ m/s. Thus, for a frequency of $f = 68.248 \times 10^6 \text{ s}^{-1} = 68.248 \text{ MHz}$,

$$\lambda = \frac{c}{f} = \frac{299792458 \text{ m/s}}{68.248 \times 10^6 \text{ s}^{-1}} = \frac{3.00 \times 10^8 \text{ m/s}}{6.8248 \times 10^7 \text{ s}^{-1}} = 4.40 \text{ m. (3 sig. figs)}$$

and for a wavelength of $\lambda = 25.0 \text{ cm} = 0.25 \text{ m}$

$$f = \frac{c}{\lambda} = \frac{299792458 \text{ m/s}}{0.25 \text{ m}} = 1.2 \times 10^9 \text{ s}^{-1} = 1.2 \text{ GHz. (2 sig. figs)}$$

Problem 2:

The boiling temperature of water at sea level is 100°C. To convert this to degrees Kelvin, just add 273.15.

$$100^\circ\text{C} + 273.15 = 373.15 \text{ K} \approx 373 \text{ K}$$

Problem 3:

The formula for the wavelength of the energy emitted from is

$$\lambda_{\text{max}} = \frac{2898 \text{ } \mu\text{m}\cdot\text{K}}{T}$$

where T is the black-body temperature. Using the temperatures for the surface of the sun ($T = 5778 \text{ K}$) and an effective value for the earth ($T = 255 \text{ K}$), we get
sun: 5.0 μm
earth: 11.4 μm .

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Marco Casella



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Homework 1 Solutions Stanford University Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the power of words has become more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such may be the essence of the book **Homework 1 Solutions Stanford University**, a literary masterpiece that delves deep to the significance of words and their affect our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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