

## Solutions For Homework #1

### Problem 1:

$c$  is the speed of light,  $\lambda$  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  $f = 68.243 \times 10^6 \text{ s}^{-1} = 68.243 \text{ MHz}$ ,

$$\lambda = \frac{c}{f} = \frac{299792458 \text{ m/s}}{68.243 \times 10^6 \text{ s}^{-1}} = \frac{3.00 \times 10^8 \text{ m/s}}{6.8243 \times 10^7 \text{ s}^{-1}} = 4.40 \text{ m. (3 sig. figs.)}$$

and for a wavelength of  $\lambda = 21.1 \text{ cm} = 0.211 \text{ m}$

$$f = \frac{c}{\lambda} = \frac{299792458 \text{ m/s}}{0.211 \text{ m}} = 1.42 \times 10^9 \text{ s}^{-1} = 1.42 \text{ GHz. (3 sig. figs.)}$$

### 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 a

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

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: 4.83  $\mu\text{m}$   
earth: 11.35  $\mu\text{m}$ .

# Homework 1 Solutions Stanford University

**Wolfgang Guggemos**



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