

Zettili Exercise 1.7

Let $M_{\oplus} \equiv$ Intensity of solar radiation at earth $= 1360 \frac{\text{W}}{\text{m}^2}$

$M_{\odot} \equiv$ Intensity of solar radiation at sun's surface

$R_{\oplus} \equiv$ Radius of earth's orbit $= 1.5 \cdot 10^{11} \text{ m}$

$R_{\odot} \equiv$ Radius of sun $= 6.96 \cdot 10^8 \text{ m}$

In steady state, all the power emitted by the sun passes also passes through a sphere of radius $R_{\oplus}$:

$$P_{\odot} = 4\pi R_{\odot}^2 M_{\odot} = 4\pi R_{\oplus}^2 M_{\oplus}$$

(a) By the Stefan-Boltzmann law [Eq. (1.1)], $M_{\odot} = \sigma T_{\odot}^4$, where

$$\sigma = 5.67 \cdot 10^{-8} \text{ W/m}^2 \text{ K}^4$$

$$T_{\odot} = \left[\frac{M_{\oplus}}{\sigma} \right]^{1/4} = \left[\frac{M_{\oplus}}{\sigma} \cdot \frac{R_{\oplus}^2}{R_{\oplus}^2} \right]^{1/4} = \left[\frac{1360 \text{ W}}{\text{m}^2} \cdot \frac{\text{m}^2 \text{ K}^4}{5.67 \cdot 10^{-8} \text{ W}} \cdot \frac{(1.5 \cdot 10^{11} \text{ m})^2}{(6.96 \cdot 10^8 \text{ m})^2} \right]^{1/4} \\ = \boxed{5780 \text{ K}}$$

By Wien's displacement law [Eq. (1.4)],

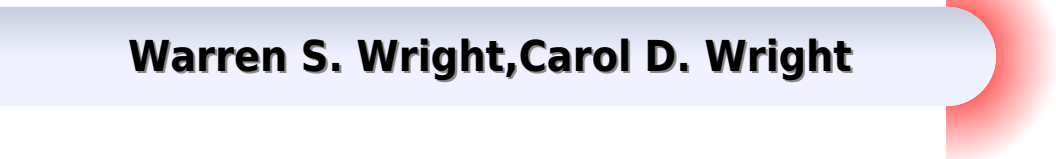
$$\lambda_{\text{max}} = \frac{2898.9 \cdot 10^{-6} \text{ m K}}{T_{\odot}} = \frac{2898.9 \cdot 10^{-6} \text{ m K}}{5780 \text{ K}} = \boxed{5.07 \cdot 10^{-7} \text{ m} = 502 \text{ nm}}$$

$$(b) P_{\odot} = 4\pi R_{\oplus}^2 M_{\oplus}$$

$$= \frac{4\pi \cdot (1.5 \cdot 10^{11} \text{ m})^2}{\text{m}^2} \cdot 1360 \text{ W} = \boxed{3.85 \cdot 10^{26} \text{ W}}$$

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Warren S. Wright, Carol D. Wright



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