Bettili Exercise 1.7

Let $M_{\Theta} = \text{Intensity of solar radiation at earth} = 1.36 \frac{\text{kW}}{\text{m}^2}$

M⊙ ≡ Intensity of solar radiation at sun's surface

R⊕ = Rodius of earth's orbit = 1.5.10"m

Ro≡ Rootius of Sun= 6.96.108 m

In sheady state, all the power emitted by the sun posses also passes through a sphere of radius $R \oplus$:

(a) By the Stetich-Boltzmann law [Eq.(1.1)], Mo=OTO, where

$$T_{\odot} = \left[\frac{M_{\odot}}{\sigma} \right]^{1/4} = \left[\frac{M_{\odot}}{\sigma} \cdot \frac{R_{\odot}^{2}}{R_{\odot}^{2}} \right]^{1/4} = \left[\frac{1360 \, \text{W}}{m^{2}} \, \frac{R_{\odot}^{2}}{5.62 \cdot 10^{-8} \, \text{W}} \, \left(6.9610^{8} \, \text{m} \right)^{-1/4} \right]^{1/4} = \left[\frac{5780 \, \text{K}}{\sigma} \right]^{1/4} = \left[\frac{1360 \, \text{W}}{\sigma} \cdot \frac{R_{\odot}^{2}}{R_{\odot}^{2}} \right]^{1/4} = \left[\frac{1360 \, \text{W}}{m^{2}} \cdot \frac{1360 \, \text{W}}{8.62 \cdot 10^{-8} \, \text{W}} \right]^{1/4} = \left[\frac{1360 \, \text{W}}{m^{2}} \cdot \frac{1360 \, \text{W}}{R_{\odot}^{2}} \right]^{1/4} = \left[\frac{1360 \, \text{W}}{m^{2}} \cdot \frac{1360 \, \text{W}}{R_{\odot}^{2}} \right]^{1/4} = \left[\frac{1360 \, \text{W}}{m^{2}} \cdot \frac{1360 \, \text{W}}{R_{\odot}^{2}} \right]^{1/4} = \left[\frac{1360 \, \text{W}}{m^{2}} \cdot \frac{1360 \, \text{W}}{R_{\odot}^{2}} \right]^{1/4} = \left[\frac{1360 \, \text{W}}{m^{2}} \cdot \frac{1360 \, \text{W}}{R_{\odot}^{2}} \right]^{1/4} = \left[\frac{1360 \, \text{W}}{m^{2}} \cdot \frac{1360 \, \text{W}}{R_{\odot}^{2}} \right]^{1/4} = \left[\frac{1360 \, \text{W}}{m^{2}} \cdot \frac{1360 \, \text{W}}{R_{\odot}^{2}} \right]^{1/4} = \left[\frac{1360 \, \text{W}}{m^{2}} \cdot \frac{1360 \, \text{W}}{R_{\odot}^{2}} \right]^{1/4} = \left[\frac{1360 \, \text{W}}{m^{2}} \cdot \frac{1360 \, \text{W}}{R_{\odot}^{2}} \right]^{1/4} = \left[\frac{1360 \, \text{W}}{m^{2}} \cdot \frac{1360 \, \text{W}}{R_{\odot}^{2}} \right]^{1/4} = \left[\frac{1360 \, \text{W}}{m^{2}} \cdot \frac{1360 \, \text{W}}{R_{\odot}^{2}} \right]^{1/4} = \left[\frac{1360 \, \text{W}}{m^{2}} \cdot \frac{1360 \, \text{W}}{R_{\odot}^{2}} \right]^{1/4} = \left[\frac{1360 \, \text{W}}{m^{2}} \cdot \frac{1360 \, \text{W}}{R_{\odot}^{2}} \right]^{1/4} = \left[\frac{1360 \, \text{W}}{m^{2}} \cdot \frac{1360 \, \text{W}}{R_{\odot}^{2}} \right]^{1/4} = \left[\frac{1360 \, \text{W}}{m^{2}} \cdot \frac{1360 \, \text{W}}{R_{\odot}^{2}} \right]^{1/4} = \left[\frac{1360 \, \text{W}}{m^{2}} \cdot \frac{1360 \, \text{W}}{R_{\odot}^{2}} \right]^{1/4} = \left[\frac{1360 \, \text{W}}{m^{2}} \cdot \frac{1360 \, \text{W}}{R_{\odot}^{2}} \right]^{1/4} = \left[\frac{1360 \, \text{W}}{m^{2}} \cdot \frac{1360 \, \text{W}}{R_{\odot}^{2}} \right]^{1/4} = \left[\frac{1360 \, \text{W}}{m^{2}} \cdot \frac{1360 \, \text{W}}{R_{\odot}^{2}} \right]^{1/4} = \left[\frac{1360 \, \text{W}}{m^{2}} \cdot \frac{1360 \, \text{W}}{R_{\odot}^{2}} \right]^{1/4} = \left[\frac{1360 \, \text{W}}{m^{2}} \cdot \frac{1360 \, \text{W}}{R_{\odot}^{2}} \right]^{1/4} = \left[\frac{1360 \, \text{W}}{m^{2}} \cdot \frac{1360 \, \text{W}}{R_{\odot}^{2}} \right]^{1/4} = \left[\frac{1360 \, \text{W}}{m^{2}} \cdot \frac{1360 \, \text{W}}{R_{\odot}^{2}} \right]^{1/4} = \left[\frac{1360 \, \text{W}}{m^{2}} \cdot \frac{1360 \, \text{W}}{R_{\odot}^{2}} \right]^{1/4} = \left[\frac{1360 \, \text{W}}{m^{2}} \cdot \frac{1360 \, \text{W}}{R_{\odot}^{2}} \right]^{1/4} = \left[\frac{1360 \, \text{W}}{m^{2}} \cdot \frac{1360 \, \text{W}}{R_{\odot}^{2}} \right]^{1/4} = \left[\frac{1360 \, \text{W}}{m^{$$

By Wien's displacement law [Eq. (1.14)],

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

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

Zettili Exercises Solution

Nouredine Zettili

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