

SOLUTIONS MANUAL

CHAPTER 1

1. The energy contained in a volume dV is

$$U(\nu, T)dV = U(\nu, T)r^2 dr \sin \theta d\theta d\varphi$$

when the geometry is that shown in the figure. The energy from this source that emerges through a hole of area dA is

$$dE(\nu, T) = U(\nu, T)dV \frac{dA \cos \theta}{4\pi r^2}$$

The total energy emitted is

$$\begin{aligned} dE(\nu, T) &= \int_0^{c/\nu} dr \int_0^{\pi/2} d\theta \int_0^{2\pi} d\varphi U(\nu, T) \sin \theta \cos \theta \frac{dA}{4\pi} \\ &= \frac{dA}{4\pi} 2\pi c \Delta \nu U(\nu, T) \int_0^{\pi/2} d\theta \sin \theta \cos \theta \\ &= \frac{1}{4} c \Delta \nu dA U(\nu, T) \end{aligned}$$

By definition of the emissivity, this is equal to $E \Delta \nu dA$. Hence

$$E(\nu, T) = \frac{c}{4} U(\nu, T)$$

2. We have

$$w(\lambda, T) = U(\nu, T) |d\nu / d\lambda| = U\left(\frac{c}{\lambda}\right) \frac{c}{\lambda^2} = \frac{8\pi hc}{\lambda^5} \frac{1}{e^{hc/\lambda kT} - 1}$$

This density will be maximal when $dw(\lambda, T) / d\lambda = 0$. What we need is

$$\frac{d}{d\lambda} \left(\frac{1}{\lambda^5} \frac{1}{e^{hc/\lambda kT} - 1} \right) = \left(-5 \frac{1}{\lambda^6} - \frac{1}{\lambda^5} \frac{e^{hc/\lambda kT}}{e^{hc/\lambda kT} - 1} \left(-\frac{A}{\lambda^2} \right) \right) \frac{1}{e^{hc/\lambda kT} - 1} = 0$$

Where $A = hc / kT$. The above implies that with $x = A / \lambda$, we must have

$$5 - x = 5e^{-x}$$

A solution of this is $x = 4.965$ so that

Solutions Manual Chapter 1

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