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I have given all numerical answers to two significant figures, for consistency. Note that I have assumed that all “difficult” definite integrals will be solved by looking them up in a table; most of these are ultimately derived using contour integration, but I certainly don’t expect the students to solve them that way.

Chapter 1

1.1 (a) The power emitted by the human body is

$$P = \sigma AT^4$$

so the total energy radiated in a time t is

$$E = \sigma AT^4 t$$

The surface area A of the human body is between 1 m^2 and 2 m^2 (depending on the person in question). Students should at least be able to estimate the order of magnitude of this number correctly. I will solve for the range $A = 1 - 2 \text{ m}^2$. The temperature of the human body is

$$T = 98.6^\circ \text{ F} = 310 \text{ K}$$

So the total energy radiated in one hour is

$$E = (5.67 \times 10^{-8} \text{ J sec}^{-1} \text{ m}^{-2} \text{ K}^{-4})(1 - 2 \text{ m}^2)(310 \text{ K})^4(3600 \text{ sec}) = 1.9 - 3.8 \times 10^6 \text{ J}$$

(b) Wien’s law gives:

$$\lambda_{peak} = w/T = (2.90 \times 10^{-3} \text{ m K})/310 \text{ K} = 9.4 \times 10^{-6} \text{ m} = 9.4 \times 10^4 \text{ \AA}$$

1.2 Wien’s law gives $\lambda_{peak} = w/T$ so that

$$T = w/\lambda_{peak} = (2.90 \times 10^{-3} \text{ m K})/3.5 \times 10^{-7} \text{ m} = 8300 \text{ K}$$

(Note the errata that this is not a red star - an error in the text of the problem! This is corrected in the second printing).

1.3 (a) The total energy density is given by

$$\rho = \sigma T^4 = (7.56 \times 10^{-16} \text{ J m}^{-3} \text{ K}^{-4})(2.7 \text{ K})^4 = 4.0 \times 10^{-14} \text{ J m}^{-3}.$$

(b) The total energy density ρ between 1 mm and 1.01 mm is

$$\rho = \int_{\nu_1}^{\nu_2} \frac{8\pi h}{c^3} \frac{\nu^3}{e^{h\nu/kT} - 1} d\nu.$$

where $\nu_1 = c/(1.01 \text{ mm}) = 2.97 \text{ Hz}$ and $\nu_2 = c/(1 \text{ mm}) = 3.00 \text{ Hz}$. This integral cannot be performed analytically, but because the range of integration is so small, it is a good approximation to take it to be given by

$$\rho \approx \frac{8\pi h}{c^3} \frac{\nu_2^3}{e^{h\nu_2/kT} - 1} (\nu_2 - \nu_1).$$

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Katrin Zwirgmaier



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