

**Errors contained in 1st printing**

p. 252: In the text following equation (8.13) "... the Backward Monte Carlo scheme described at the end of this chapter" should be replaced by "... the Backward Monte Carlo scheme described in Chapter 21."

p. 368–369: Three 2nd ed. figures snuck back into the 3rd ed.: Figures 11-31 to 11-33 should be replaced by the below:

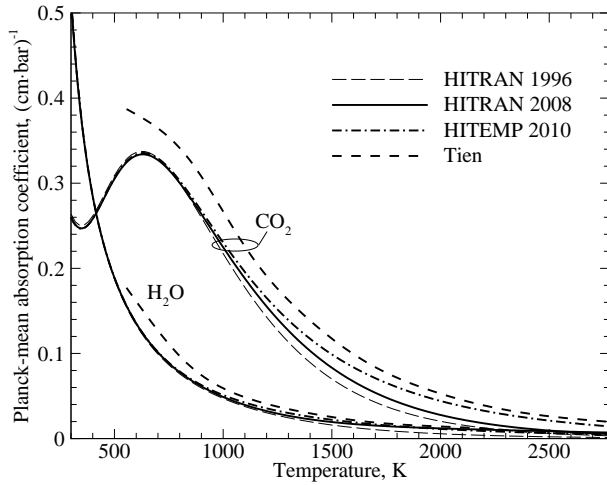


FIGURE 11-31 Planck-mean absorption coefficients for carbon dioxide, and water vapor.

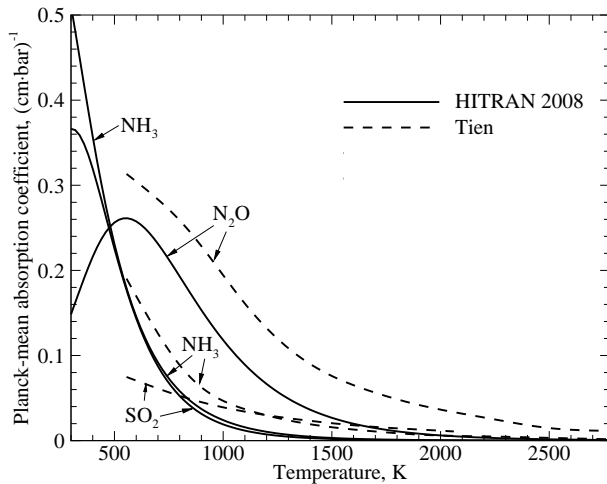


FIGURE 11-32 Planck-mean absorption coefficients for ammonia, nitrous oxide, and sulfur dioxide.

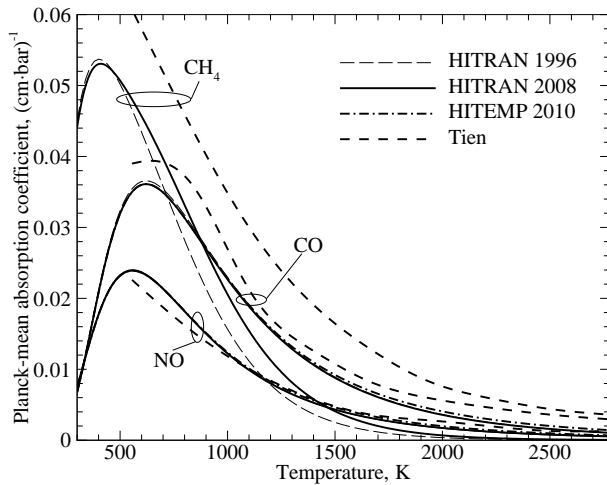


FIGURE 11-33 Planck-mean absorption coefficients for carbon monoxide, nitric oxide, and methane.

p. 496: There is a missing absolute-value sign in equation (16.2):

$$Y_n^m(\theta, \psi) = \begin{cases} \cos(m\psi)P_n^m(\cos \theta), & \text{for } m \geq 0, \\ \sin(|m|\psi)P_n^m(\cos \theta), & \text{for } m < 0, \end{cases}$$

p. 502: There is a wrong sign in equation (16.25) in front of  $I_1^{-1}$ :

$$I(\mathbf{r}, \theta, \psi) = I_0^0 + I_1^0 \cos \theta - I_1^{-1} \sin \theta \sin \psi - I_1^1 \sin \theta \cos \psi.$$

p. 510: There was an error in the original paper by Modest [18]: the reported value for  $f_n$  in Table 16.1 and equations (16.54a,b) should be  $f_n \equiv 1$ , i.e., can be omitted entirely.

### Errors contained in all printings

p. 52: The average value for  $\rho = \frac{1}{2}(\rho_{\parallel} + \rho_{\perp})$  in Figure 2-11 is mislabeled: the arrow should point to the line in the middle.

p. 80: Figure 3-9 is mislabeled: the solid line shows  $\rho_{\perp}$ , while the dash-dotted line represents  $\rho$ .

p. 231 At the beginning of **Example 7.1** the following sentence should be added:

Since solar radiation is essentially confined to wavelengths below  $3 \mu\text{m}$  or so, while a solar collector at  $350 \text{ K}$  has all but  $f(4 \mu\text{m} \times 350 \text{ K}) < 0.8\%$  of its emission beyond  $4 \mu\text{m}$ , we use solar radiation as spectral range "1" (with  $\epsilon_1^{(1)} = 0.8, \epsilon_2^{(1)} = 0.1$ ), and surface emission as range "2" (with  $\epsilon_1^{(2)} = 0.1, \epsilon_2^{(2)} = 0.8$ ).

p. 388: Ludvig Lorenz only lived until 1891 (not 1991).

p. 820: Reference to Fig. 3-9 is incorrect: it should be Fig 3-10.

p. 840: There are two errors in the formula for Viewfactor 19; the correct expression is

$$-1 < H < 1: F_{d1-2} = \frac{1}{\pi} \left\{ \frac{H}{(L^2 + H^2)^{3/2}} \cos^{-1} \left( -\frac{H}{L} \sqrt{L^2 + H^2 - 1} \right) - \frac{\sqrt{(L^2 + H^2 - 1)(1 - H^2)}}{L^2 + H^2} - \sin^{-1} \frac{\sqrt{H^2 + L^2 - 1}}{L} + \frac{\pi}{2} \right\}$$

These errors are also in FUNCTION VIEW and all programs in Chs. 5, 6 and 7 that have this function embedded in their program file, such as view, graydi ffxch, etc.