

ERRATA

THERMAL RADIATION HEAT TRANSFER

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7TH EDITION, 2021

Page	Correction
47	Eq. (1.85) The upper limit of the integral should be λ , not ∞ .
65	Figure 2.7 Interchange $d\Omega_i$ and $d\Omega$ in parts (a) and (b). Figure caption should now read: FIGURE 2.7: Equivalent ways of showing energy from dA_i that is incident on dA . (a) Incidence within solid angle $d\Omega$ having origin at dA_i ; incidence within solid angle $d\Omega_i$ having origin at dA .
158	Figure 4.2 The two vertical lines labelled $l\cos\beta$ should be labelled $l\sin\beta$
174	Example 4.13 First equation should read: $A_1F_{1-2} + A_1F_{1-3} = A_1$; $A_2F_{2-1} + A_2F_{2-3} = A_2$; $A_3F_{3-1} + A_3F_{3-2} = A_3$
378	Eq. (8.82) Should read: $\rho(\theta_i) = \frac{\rho_{\perp}(\theta_i) + \rho_{\parallel}(\theta_i)}{2} = \frac{1}{2} \left[\frac{\tan^2(\theta_i - \chi)}{\tan^2(\theta_i + \chi)} + \frac{\sin^2(\theta_i - \chi)}{\sin^2(\theta_i + \chi)} \right]$ $= \frac{1}{2} \frac{\sin^2(\theta_i - \chi)}{\sin^2(\theta_i + \chi)} \left[1 + \frac{\cos^2(\theta_i + \chi)}{\cos^2(\theta_i - \chi)} \right]$
384	Eq. (8.111) Should read:

$$\epsilon_{II} = \text{Im}(\chi_c) = \frac{\omega_p^2 \zeta \omega}{(\omega_0^2 - \omega^2)^2 + \zeta^2 \omega^2}$$

386 Eq. (8.118) The zeta (ζ) should be tau (τ).

415 Example 9.1 The first line of the second paragraph should read:
Relations from the exponential wide-band model for α , β , and ω , and the transition $(-1, 0, 1)$ are used. (See the footnote for the 9.4 μm band in Table 9.2).

470 First line of text: Replace $\pm\infty$ with ± 1 .

644 Section 14.2.2 Replace all β^k with i^k

686 Line after Eq. (15.5) replace $\mathfrak{G}(0) = 0$ with $\mathfrak{G}(0) = 1$.

On-Line Appendix P

Problem P.7.8 Solution should be 4.47 hr.