

**Errata to  
Fundamentals of Air System Design Self-Directed Learning Course,  
SI Edition (2011)**

**April 4, 2017**

*Shaded items have been added since the previously published errata sheet dated June 24, 2015.*

---

---

**Page 2:** The middle of the third paragraph on the page currently reads “In the system currently used extensively in the HVAC industry, the value of  $g_c$  is  $9.81 \text{ kg}_m/\text{kg}_f \cdot \text{s}^2$ ” but should read “In the system currently used extensively in the HVAC industry, the value of  $g_c$  is  $9.81 \text{ kg}_m \cdot \text{m}/\text{kg}_f \cdot \text{s}^2$ .”

**Page 10:** The equation at the bottom of the page currently reads

$$\gamma \frac{V^2}{2g} = \left[ \frac{\text{kg}_f}{\text{m}^2} \right] \left[ \frac{\text{m}^2/\text{sec}^2}{\text{m}/\text{sec}^2} \right] = \frac{\text{kg}_f}{\text{m}^2} = \text{Pa}$$

but should read

$$\gamma \frac{V^2}{2g} = \left[ \frac{\text{kg}_f}{\text{m}^3} \right] \left[ \frac{\text{m}^2/\text{sec}^2}{\text{m}/\text{sec}^2} \right] = \frac{\text{kg}_f}{\text{m}^2} = \text{Pa}$$

**Page 139:** At the bottom of the page, “ $A_o = \text{duct area, m}^2$ ” should instead be “ $A_o = \text{duct area, mm}^2$ ”

**Page 140:** Equation 6-10 and the first line of its nomenclature currently read:

$$D = \sqrt{\frac{4HW}{\pi}} \quad \text{where } D = \text{equivalent duct diameter, mm}$$

But should read:

$$D_h = \frac{4HW}{2(H+W)} \quad \text{where } D_h = \text{equivalent duct diameter, mm}$$

**Page 233:** “Typical hearing range is from 200 to 20,000 cycles per second” should read “Typical hearing range is from **20** to 20,000 cycles per second”