

CIBSE Guide A (March 2015 edition, reprinted May 2019): corrigenda

The corrigenda below include all corrections since original publication (March 2015). These have been corrected in the PDF version, and (with the exception of the correction to page 7-3) in the hard copy reprint dated May 2019.

Page 0-10	Figure 0.6: the labels for 'Data error' and 'Total error' should be transposed; the straight broken line shows the data error.
Page 1-50	Line 250: second right-hand bracket missing after +.1) Line 280: should read: "250 P3 = P1 * P3" Line 460: should read: "HL3 = 1.7*.00001*M*(5867-PS)" Line 510: should read: "TS = .303 * EXP(-.036*M) + .028"
Page 1-23	Section 1.7.3, last paragraph: the first sentence should read "... and reasons for bringing people into the space."
Page 2-35	Section 2.9.4, bullet point 'Winter': the number of hours in each season should read 2166.
Page 3-15	Example 3.4: the length of the perimeter should read: $p_f = 30 + 30 + 20 + 24 + 10 + 6 = 120 \text{ m}$
Page 4-10	Left-hand column, first paragraph, first sentence should read: "If used without care, ... transferred to the <u>outdoor</u> air."
Page 4-7	Section 4.2.2: definition of symbols following equation 4.1: delete '(ppm)' (both occasions).
Page 4-28	Table 4.25: symbols Q_b , Q_w and Q_t should be changed to q_{vb} , q_{vw} and q_{vt} respectively. These symbols are defined in section 4.1.3 (page 4-2) as follows: q_{vb} = volumetric flow rate due to stack effect only (m ³ /s) q_{vw} = volumetric flow rate due to wind only (m ³ /s) q_{vt} = total volumetric flow rate (m ³ /s)
Page 5-13	Figure 5.3(f): delete units on x-axis (solar gain factor is dimensionless).
Page 5-29	Figure 5.16: the example shows the variation in temperature over twelve months from January to December.
Page 5-33	Left-hand column, first paragraph, first sentence should read: "There may be occasions when relatively high air change rates ..."
Page 5-34	Figure 5.21: on the y-axis the values for view factor should read: 0.04, 0.05, 0.06, 0.07, 0.08, 0.09, 0.10, 0.11, 0.12, 0.13.
Page 5-35	Left-hand column, first paragraph, first sentence should read: "The values given directly perpendicular <u>at</u> the corner of the space ..." Left-hand column, first paragraph, last sentence should read: "Therefore the factor for the whole ceiling is 0.324 (i.e. 4×0.081) and so ..." $\theta_m = (0.324 \times 26) + [(1 - 0.324) \times 20.5] = 22.3 \text{ }^\circ\text{C}$

- Page 5-35 Left-hand column, first paragraph (continued):
The calculated value for θ_m should read 22.3 °C; therefore, inserting this value, the following equation should read:
$$\theta_{op} = 0.5 (17.5 \times 22.3) = 19.9 \text{ °C}$$
- Page 5-37 Equation 5.50: the bracketed term on the upper line of the right-hand side of the equation should read:
$$(\theta_r - \bar{\theta}_i)$$
- Page 5-56 Right-hand column, third bullet point: ‘albido’ should read ‘albedo’.
Section 5.10.4, first paragraph, line 7 should read: “To minimise this difference ...”
- Page 5-57 Add footnote: “In Table 5.18, ‘hour 1’ means the period from 00:00 to 01:00 (suntime) etc. The altitude and azimuth are calculated for the end of the stated hour; the irradiation data are the average over the stated hour.”
- Page 5-62 Equation 5.63 and following symbol definitions: Φ_{abs} (W) should be replaced by ϕ_{abs} (W·m²).
Figure 5.38: add footnote: “Figure 5.38 (see also chapter 1, section 1.3.1.2) shows the amount by which the design operative temperature should be increased to allow for the effect of air movement. When analyzing, as here, the predicted temperature should be reduced by a corresponding amount.”
- Page 5-66 Section 5.10.6, first paragraph, line 10 should read: “ ... flux of 8 W·m⁻², ...”
- Page 5-72 Equation 5.90, symbol definitions: the units for heating energy (Q) should be W·h.
- Page 5-77 Addendum, first equation and following symbol definitions: t (h) should be replaced by t' (number of days).
- Page 5-86 Equation A3.1 and symbol definitions: Φ_{abs} (W) should be replaced by ϕ_{abs} (W·m²).
-
- Page 6-8 Table 6.8: column 1 (Motor output rating): the first three figures should read: 0.75, 3.75 and 7.50.
-
- Page 7-3 Equations 7.1 and 7.2 should read as follows:
$$SVP = 610.5 \exp \frac{17.269 \times \theta}{237.3 + \theta} \quad \text{for } \theta \geq 0 \quad (7.1)$$

$$SVP = 610.5 \exp \frac{21.875 \times \theta}{265.5 + \theta} \quad \text{for } \theta < 0 \quad (7.2)$$
-
- Page 8-12 Section 8.4.6.1, first paragraph: the penultimate sentence should read: “Nitrogen dioxide concentration remains unchanged.”