1 Basic of thermodynamics

Page 30, Problem **1.9**: replace the text ‘evaporated’ with ‘vaporised’

Page 30, Problem **1.11**: replace the text ‘evaporates’ with ‘vaporises’, ‘specific heat of evaporation’ with ‘specific heat of vaporisation’

Page 30, Problem **1.13**: replace the text ‘1010 J/kg’ with ‘1010 J/(kg K)’

2 Heat transfer

Page 41, line 13: replace the formula with

$$\frac{\partial\theta}{\partial t} = a\left(\frac{\partial^2\theta}{\partial x^2} + \frac{\partial^2\theta}{\partial y^2} + \frac{\partial^2\theta}{\partial z^2}\right),$$

[reported by Mohsen Soleimani Mohseni]

Page 43, line 20: replace the text 'is much higher' with 'is much lower'. [reported by Mohsen Soleimani Mohseni]

Page 54, line 9: replace the text '$\mathrm{d}q/\mathrm{d}\lambda$ (W/m)' with '$\mathrm{d}q/\mathrm{d}\lambda$ (W/m^3)'. [reported by Zvonko Jagličić]

Page 54, line 20: replace the text '$4\,\mu m > \lambda > 7.5\,\mu m$' with '$0.4\,\mu m < \lambda < 0.75\,\mu m$'. [reported by Mohsen Soleimani Mohseni]

Page 66, lines 19 and 20: replace the lines with

$$A_1 = 2\pi r_1 h_1 + 2\,\pi r_1^2 = 0.085\,\mathrm{m}^2,$$
$$A_2 = 2\pi r_2 h_2 + 2\,\pi r_2^2 = 0.116\,\mathrm{m}^2.$$

3 Heat transfer in building components

Page 108, lines 13–17: replace the paragraph with 'The procedure for determining heat losses through ventilation is described in ISO 13789 [45]. Due to ventilation, the internal air of volume V_a at temperature θ_i is replaced by external air at temperature θ_e. The external air must be heated isobarically to temperature θ_i; in the process, its volume increases and in the end it must be equal to the volume of the air it replaces V_a. Hence, the required heat is (1.20)'

Page 114, Problem **3.5**: replace the text 'Vertical airspace' with 'Vertical unventilated airspace'

Page 114, Problem **3.7**: replace the text 'an airspace' with 'an unventilated airspace'

Page 115, Problem **3.7**: replace the text 'within the airspace is 0 °C' with 'within the airspace is −2 °C'

4 Moisture in building components

Page 140, **Table 4.1**: replace the text 'Direction of Water Vapour Flow' with 'Direction of Heat Flow'.

Page 143, line 35: replace the text '1.93×10^{-4} g/s = 16.4 g/d' with '4.82×10^{-4} g/s = 41.6 g/d'. [reported by Blaž Omeragić]

Page 145, line 5: replace the text 'equivalent layer thickness' with 'equivalent air layer thickness'

Page 155, lines 17, 20, 21, 28: replace 'p_c' with 'p_{ev}'

Page 155, **Figure 4.25**: replace 'p_c' with 'p_{ev}'

Page 156, lines 8, 11, 12, 15: replace 'p_c' with 'p_{ev}'

Page 156, **Figure 4.26**: replace 'p_c' with 'p_{ev}'

Page 165, Problem **4.3**: replace the text '1.8 kg' with '1.7 kg'

Page 166, Problem **4.10**: replace the text 'equivalent layer thickness' with 'equivalent air layer thickness'

7 Building acoustics

Page 239, Problem **7.1**: replace the text ‘of height 1.5 m are located’ with ‘are located 1.5 m above the floor’

8 Illumination

Page 263, unnamed figure: dA' to dΩ

Page 264, line 19: replace 'much larger' with 'much smaller'.

Page 264, lines 21 and 22: replace the texts 'K = 93 lm/W' and 'K = 20 lm/W' with 'η_v = 93 lm/W' and 'η_v = 20 lm/W'. [reported by Andrej Orgulan]

Page 265, line 9: replace the texts 'K = 70 lm/W' and 'K = 90 lm/W' with 'η_v = 80 lm/W–110 lm/W' and 'η_v = 120 lm/W–200 lm/W'. [reported by Andrej Orgulan]

Page 266, lines 1–4: replace first two sentences with 'The highest possible value is 100, which corresponds to a light source that radiates identically to a black body radiator for the correlated colour temperatures below 5000 K or identically to daylight illuminants above this temperature. As the colour appearance drifts away from the ideal, the value gets smaller, dropping to negative values for some light sources. [reported by Andrej Orgulan]

Page 272, Problem **8.3**: replace the text 'of height 9.5 m' with 'of height 22.5 m'.

Tables

Page 276, **Table A.1**: add

η_v	lm/W	luminous efficacy of a source