Errata: Scientific Computing using Maple and Matlab, first edition

• page 3: In equation (1.2), the constant K should be C, i.e.

$$\frac{C(u_{i+1} - 2u_i + u_{i-1})}{h} = f_i, \qquad i = 1, \dots, n,$$

- page 4: The constant K should be also C, i.e. "Back substitution gives $\boldsymbol{u}=\frac{h}{C}(-2,-3,-3,-2)^{\top}$."
- $\bullet\,$ page 3: the Riemann sum should read

$$\int_{x_{i-1}}^{x_i} w(x)(x - x_{i-1}) dx \approx \sum_{j=1}^{N} w(x_{i-1} + \frac{jh}{N}) \cdot \frac{jh}{N} \cdot \frac{h}{N}.$$

ullet page 35: in the displayed formula, y should be replaced by x to obtain

$$\frac{f_2(x+\varepsilon) - f_2(x)}{f_2(x)} = \frac{1}{2(1+x)}\varepsilon + O(\varepsilon^2).$$