## **CORRIGENDUM**

Page 25: x - y can have increased relative error

Exercise 6.2:  $f'(0) = c_0 + c_1x_1 + c_2x_2$  should be  $f'(0) = c_0f(0) + c_1f(x_1) + c_2f(x_2)$ 

Exercise 6.7: The stated inequalties are valid when the norms are defined without the factors of n. For the definition of norms as stated in the book, the following is a set of valid inequalities:

$$n||y||_2 \ge n||y||_1 \ge ||y||_\infty \ge ||y||_1 \ge \frac{1}{\sqrt{n}}||y||_2$$

Exercise 7.8b: Simplified from general N to N=4.

Exercise 13.1: Part (a) is revised for clarity, and subtask (b) has been inserted.

Exercise 15.2c: Analytical solution is now provided, so it only needs to be verified rather than derived.

Exercise 15.3:

 $\frac{\partial f}{\partial t} = \frac{\partial}{\partial x} \left( D(x) \frac{\partial f}{\partial x} \right) = 0$ 

should be

$$\frac{\partial f}{\partial t} = \frac{\partial}{\partial x} \left( D(x) \frac{\partial f}{\partial x} \right)$$

Also, this is not a conservation law, even though a flux-conservative discretization is asked for.

Exercise 16.3b has been dramatically simplified.

## Minor changes

Exericse 2.5b: added "with respect to errors in the coefficients"

Exercise 3.1: "after the comma"  $\rightarrow$  "after the decimal point"

Exercise 3.4: "for reach"  $\rightarrow$  "for each"

Exercise 4.1: Clarification added

Exercise 7.4b: clarified that this is for a finite interval

Exercise 9.2: Slightly simplified

Exercise 10.2: Reworded for clarity

Exercise 14.1e: A misleading sentence is revised.