

Errata for Fortran 90/95 for Scientists and Engineers 1/e

(Current at 30 January 2001)

Please note that some or all of the following errata may be corrected in future reprints of the book, so they may not appear in your copy of the text.

1. In the first printing of the book, some page numbers were incorrect in the Table of Contents. This was corrected at the second printing.
2. Page 18, Figure 1-9. The comment the declaration statement of variable `x2` should be corrected as shown below:

```
REAL :: x1           ! First solution of equation (for real roots)
REAL :: x2           ! Second solution of equation (for real roots)
```

3. Page 48, Example 2-3 (*f*). The result of the expression `L1 .OR. L2 .AND. L3` should be `.TRUE.`.
4. Page 151, Exercise 3-21. The definitions of the diode voltage v_D and the diode current i_D are reversed.
5. Page 170, Item 5. The definition line is incorrect in two places. It should declare `k = 2` in both:

```
INTEGER :: j = 1, k = 2, l = 3, m = 4, n = 5
```

6. Page 194, Figure 4-10. The `CLOSE` statement has the wrong logical unit:

```
! Close file
CLOSE (UNIT=3 )
```

7. Page 212, Problem 4-20, second sentence should read: “Move back six **lines** in the file and”
8. Page 236, Figure 5-10. Incorrect statement number on last `FORMAT` statement in program:

```
WRITE (*,110) (value(j), square_root(j), cube_root(j), j = 1, max_size)
110 FORMAT (2(4X,F6.0,9X,F6.4,6X,F6.4))
```

9. Page 250, last sentence of first paragraph should read: “If not, it reads in and sorts the numbers.”
10. Page 357, `USE` Statement box: This should read `USE module1` without any addition. Only one module can be listed in a given `USE` statement.
11. Page 373, Section 6.6.1, Unintended Side Effects in Functions. The fifth sentence should read: “If any of a function’s dummy arguments appear on the **left**

side of an assignment statement within the function, then the values of the input variables corresponding to those arguments will be changed.”

12. Page 431, penultimate paragraph, third sentence should read: “Assume that the coefficient a_{11} of **Equation (8-4)** is in error by 1 percent...”. The equation number was incorrect.
13. Page 431, penultimate paragraph, fifth sentence should read: “Now let’s assume that the coefficient a_{11} of **Equation (8-5)** is in error by 1 percent...”. The equation number was incorrect.
14. Page 519. The form of the USE statement with the rename list is backwards. The should be

```
USE local_name => module_name
```

where local_name is the name of the procedure in the local program, and module_name is the name of the procedure in the module in which it is defined. Therefore, the example on this page should read:

```
USE lsqfit => sp_real_least_squares_fit
```

15. Page 612, Figure 11-16. A line has been deleted from the program shown in this figure. The code fragment is shown below, with the missing line in bold face.

```
! Values already in list. Check for location.
front: IF ( ptr%value < head%value ) THEN
    ! Add at front of list
    ptr%next_value => head
    head => ptr
ELSE IF ( ptr%value >= tail%value ) THEN
    ! Add at end of list
    tail%next_value => ptr
    tail => ptr
    NULLIFY ( tail%next_value )
ELSE
    ! Find place to add value
    ...
```