

**Errata for
Numerical Methods for Engineers
by Ayyub and McCuen
Prentice Hall, 1996**

Item	Location	Corrections																				
1.	Page 63, Eq. 4-7	<table><tr><th></th><th>x_1</th><th>x_2</th><th>y</th><th></th></tr><tr><td>x_1</td><td>1.00</td><td>-0.42</td><td>-0.61</td><td></td></tr><tr><td>x_2</td><td>-0.42</td><td>1.00</td><td>0.37</td><td></td></tr><tr><td>y</td><td>-0.61</td><td>0.37</td><td>1.00</td><td>Shift row</td></tr></table>		x_1	x_2	y		x_1	1.00	-0.42	-0.61		x_2	-0.42	1.00	0.37		y	-0.61	0.37	1.00	Shift row
	x_1	x_2	y																			
x_1	1.00	-0.42	-0.61																			
x_2	-0.42	1.00	0.37																			
y	-0.61	0.37	1.00	Shift row																		
2.	Page 71, Table 4-3, Columns 8 and 9	“Absolute Error (%)” heading for Column 8 “Relative Error (%)” heading for Column 9																				
3.	Page 111, Eq. 5-42a	$R_1' = R_1$ remove 2 $R_2' = R_2 - 2R_1'$ add 2 $R_3' = R_3 - 3R_1'$ no change																				
4.	Page 120, Eq. 5-72a Eq. 5-72b Eq. 5-72c	Replace “L” with “...” Replace “L” with “...” Replace “L” with “...”																				
5.	Page 153, line above Eq. 6-32	“which is a polynomial of order (n-i).” Change “1” to “i”																				
6.	Page 165, Eq. 6-72	“ $2a_i x_i + b_i = 2a_{i+1} x_{i+1} + b_{i+1}$ ” Change the subscript of x from i + 1 to i																				
7.	Page 181, Eq. 7-3	Change “<” to “≈”																				
8.	Page 188, Eq. 7-35 Eq. 7-36	Change “<” to “≈” Change “<” to “≈”																				
9.	Page 194, Eq. 7-60	Change “12” to “2”																				
10.	Page 205, Eq. 7-86	Remove “= hr/sec”																				
11.	Page 206, first line	Change “0.1” to “0.2”																				
12.	Page 231, Line 6	$y_{4,0} = y_{0,*} + \frac{4h}{3}[\dots]$ Change “1” to “0”																				

<u>Item</u>	<u>Location</u>	<u>Corrections</u>
13.	Page 231, Eq. 8-39	Replace “L” by “...”
14.	Page 249, Table 8-8, first column	Replace “800” by “900”
15.	Page 250, Equation in item 1	$S_1 = \frac{(\ln 2)(1)}{5} = 0.138629$ Change “0” to “1”
16.	Page 251, answer in item 8	Change “0.892186” to “1.1486977”
17.	Page 305, Eq. 10-20a Eq. 10-20b	“($\hat{y}_i - y_i$) ² ” add square “($\hat{y}_i - y_i$) ² ” add square
18.	Page 308, second line below Eq. 10-31	“and 10-30. Equation 10-30 ...” Change “10-31” to “10-30”
19.	Page 320, Eq. 10-46	Change all “L” to “...” Change “O” to “∴” Change all “M” to “∴ ”
20.	Page 321, Line 8	Change “r ₄ ” to “r _{4y} ”
21.	Page 288, Figs. 4-18 & 4-19	As marked below