

Corrections to
**MATHEMATICAL METHODS IN SCIENCE AND
 ENGINEERING**

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Majority of these corrections are typographical errors that had little or no impact on the intended meaning. However, the ones that may be worth marking in your book are indicated with an asterisk. Approximately half of these changes have been incorporated in the second printing of the book, while the rest will be included in the third.

pg. 2*	Minus sign in Equation (1.2) is missing: $\vec{F} = -G\frac{m_1m_2}{r^2}\hat{e}_r$.
pg. 16*	$Q(x)$ in Equation (2.44) should read $Q(x)y(x)$.
pg. 66	Prob. (4.3), “the-three dimensional” → “the three-dimensional”.
pg. 67*	In Prob. (4.7) 2π should be $\sqrt{2\pi}$ in both expressions.
pg. 87*	Fourth line from the top, n should be m .
pg. 115*	In Eq. (8.49), h should be d .
pg. 185*	Eq. (10.151) should read $g^{kl} = \sum_{i=1}^n \frac{\partial \bar{x}^k}{\partial x^i} \frac{\partial \bar{x}^l}{\partial x^i}$.
pg. 194*	Delete “ $\nabla^2 =$ ” in Equation (10.225).
pg. 201	In Section 10.10.3 delete “a” in “... a moving observers ...”.
pg. 204*	In Equation (10.285), the total derivatives are partial.
pg. 231	Above Eq. (11.41) delete the reference to Merzbacher.
pg. 280	Insert a period after Eq. (11.411).
pg. 289*	Replace O_{\pm} with \mathcal{L}_{\pm} in Problem 11.8.
pg. 330	End Problem 12.7 with a period.
pg. 331	Delete the first two lines after Figure 12.29.
pg. 425	The line before Equation (14.296) should end with “:”.
pg. 492	Replace “Heavyside” with “Heaviside”. Also in pg. 494.
pg. 508	After Equation (16.242), “as c as” delete the first “as”.
pg. 510	Example 16.14, delete the word “vertical” in the second line.
pg. 535	Delete the “the Laplace equation” above Equation (17.126).
pg. 535	In Equation (17.125), m^2 should be multiplied by $1/2$.
pg. 566	In Problem 18.9, “conditios” should read “conditions”.
pg. 593	Second line from the top, “is” should be “are”.
pg. 607	Above the second line from Eq. (19.250) H are not bold.
pg. 626	Delete the period after $y(L) = 0$ in Problem 19.3.
pg. 636	Before Equation (20.18) “that, is” should be “that is,”.
pg. 665	Order of the authors in the 2nd reference is reverse.
pg. 665	In the 3rd reference “of Physics” should read “for Physicists”.