Errata for Integrated Physics and Calculus, Volume 2

Andrew Rex and Martin Jackson ©2000 Addison Wesley Longman

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Note: "Line -n" means the *n*th line from the bottom of the page.

p. 447, line -4	lines in the plane by linear equations in three variables \rightarrow lines in the plane by linear equations in two variables
p. 450, line 1	line \rightarrow plane
p. 450, line -4	in two places: $-D/A \rightarrow -D/C$
p. 456, line 9-10	a infinite number of values for $\arcsin 0.5 \rightarrow \text{infinitely many values of } arcsin 0.5$
p. 461, line -8	desribes \rightarrow describes
p. 463, line 4	The text following the first display should read: Fix the parameters a , b , and c while considering d as varying from 1 to -1 . Think of the corresponding surfaces in animation with d serving as the time (running backward from $d = 1$ to $d = -1$). At $d = 1$, we see a one-sheet hyperboloid. As d decreases, the neck of the one-sheet hyperboloid contracts in toward the origin. For $d = 0$, the neck pinches down to the origin itself and the surface is an elliptic cone. As d continues to decrease (and is now negative), the surface splits into a two-sheet hyperboloid.
p. 468, line -8	$\lim_{u \to K} \cos(u) = K \to \lim_{u \to K} \cos(u) = \cos(K)$
p. 487, first display	Should read: $\tilde{f}(x,y) = \begin{cases} f(x,y) & \text{ if } (x,y) \text{ is in } R \\ 0 & \text{ if } (x,y) \text{ is in } \tilde{R} \text{ but not in } R. \end{cases}$
p. 498, line -12	The third coordinate is z is the same \rightarrow The third coordinate is the same
p. 502, line 6	by integrating the function \rightarrow by integrating the function
p. 526, Table 15.1 and inside back cover	mass of Mercury should read 3.30×10^{23}
p. 527, line −1	$N{\cdot}m^2/s^2 \rightarrow N{\cdot}m^2/kg^2$
p. 529, line 3 and line14	$N{\cdot}m^2/s^2 \rightarrow N{\cdot}m^2/kg^2$
p. 529, line 14	$2.70 \times 10^3 \text{ m/s}^2 \rightarrow 2.70 \times 10^{-3} \text{ m/s}^2$
p. 558, lines -6 to -4	$F_{32} \rightarrow F_{23}$
p. 564, Figure 16.9	$-L \rightarrow -L/2$, $L \rightarrow L/2$
p. 572, lines −1	a input point \rightarrow an input point
p. 574, lines 11	As example \rightarrow As an example
p. 583, first display	in denominator: $x - a \rightarrow x + a$
p. 601, Problem 27, line 1	$y = 2.50 \text{ m} \rightarrow z = 2.50 \text{ m}$

p. 601, Problem 29, line 1	between the two parallel disks \rightarrow between two parallel disks
p. 602, Problem 10, line 1	charge $0.25 \ \mu C \rightarrow charge -0.25 \ \mu C$
p. 605, line -9	$\partial/\partial x \rightarrow \partial/\partial y$
p. 606, last display	$\left. \frac{\partial f}{\partial y} \right _{1,\pi} \rightarrow \left. \frac{\partial f}{\partial y} \right _{(1,\pi)}$
p. 635, last display	$\frac{\partial V}{\partial x} \rightarrow \frac{\partial V}{\partial x}, \frac{\partial V}{\partial y} \rightarrow \frac{\partial V}{\partial y}, \frac{\partial V}{\partial z} \rightarrow \frac{\partial V}{\partial z}$
p. 643, first display	$f_{xxx}(x,y) = \frac{\partial^3 f}{\partial x^3} \frac{\partial}{\partial x} \left[\frac{\partial^2 f}{\partial x^2} \right] \to f_{xxx}(x,y) = \frac{\partial^3 f}{\partial x^3} = \frac{\partial}{\partial x} \left[\frac{\partial^2 f}{\partial x^2} \right]$
p. 649, Problems 17,18	f(x,y) o f(x,y,z)
p. 699, last display	$y-2 \rightarrow y-1$ and $x+1 \rightarrow x+2$
p. 703, line 13	$(2+\pi)r+h \rightarrow (2+\pi)r+2h$
p. 720, line -8	be \rightarrow by
p. 742, second display	in two places: $\sin \theta_i \rightarrow \cos \theta_i$
p. 752, Problem 8 of Section 22.1	radius $4 \rightarrow \text{radius } 2\sqrt{2}$
p. 762, line 4	field lines \rightarrow field vectors
p. 764, line 6	$am \rightarrow an$
p. 764, line 17	of that Example 23.3 \rightarrow of Example 23.3
p. 784, Problem 26	$r > R \rightarrow r < R$
p. 794, line 10	experience \rightarrow experiences
p. 800, line 11	carries \rightarrow carrier
p. 814, Problem 6	form \rightarrow from
p. 822, Figure 25.4 caption	Example 24.1 \rightarrow Example 25.1
p. 847, Line 1	continuous partial derivatives \rightarrow continuous second partial derivatives
p. 847, Line 11	Theorem 25.2 \rightarrow Theorem 22.3
p. 856, Line –7	defined in Problem 7 \rightarrow defined in Problem 12
p. 900, Line -9	definition \rightarrow definition
p. 902, Line -12	for all (x, y) in $\mathbb{R} \longrightarrow$ for all (x, y) in \mathbb{R}^2
p. 905, Line 6	through \rightarrow through
p. 912, Table 27.1 caption	theoreoms \rightarrow theorems
p. 916, line –1	examine this extra term \rightarrow examine how this extra term
p. 920, Figure 27.10 caption	in Equation (27.39). \rightarrow in Equation (27.39) with $\phi = 0$.

p. 920, line 18	$mL + M\left(-\frac{EL}{Mc^2}\right) \rightarrow mL + M\left(-\frac{EL}{Mc^2}\right) = 0$
p. 922, line 5	$\frac{(C/s)m}{s} \rightarrow \frac{(C/s)m}{C}$
p. 923, Figure 27.11	Figure should include an arrow from the label "visible light" to the narrow band between UV and infrared
p. 927, line 18	insert equal sign between $\frac{2(5.0 \times 10^{-3} \text{ J/s})(3600 \text{ s})}{3.00 \times 10^8 \text{ m/s}}$ and $1.2 \times 10^{-7} \text{ J/m}$
p. AN-3, Volume 2, Section 18.1, Problem 13	$f_z(x,y,z) = 2x(14y^2 + z)^2 \to f_z(x,y,z) = 2x(14y^2 + z)^{-2}$
p. AN-3, Volume 2, Section 18.2, Problem 7	$z = e^2 + e^2(x-2) + e^2(y-1) \rightarrow z = e^2 + e^2(x-2) + 2e^2(y-1)$
p. AN-3, Volume 2, Section 18.2, Problem 21	$\left(-\frac{1}{3},-\frac{1}{6}\right) \rightarrow \left(-\frac{1}{3},\frac{1}{6}\right)$
p. AN-3, Volume 2, Section 18.2, Problem 23	(a) 0.94 m (b) 0.13 m (c) -0.94 m \rightarrow (a) 1.48 m (b) 0.212 m (c) -1.48 m
p. AN-3, Volume 2, Section 18.5, Problem 3	$\frac{2x}{(x^2+y^2)^2}\hat{i} + \frac{2y}{(x^2+y^2)^2}\hat{j} \to \frac{4x}{(x^2+y^2)^2}\hat{i} + \frac{4y}{(x^2+y^2)^2}\hat{j}$
p. AN-3, Volume 2, Section 18.5, Problem 5	$-3\sin(2x)\cos(y)\hat{j} \rightarrow +3\sin(2x)\sin(y)\hat{j}$
p. AN-3, Volume 2, Section 18.6, Problem 1	$-\frac{2kq}{\sqrt{2}a^2} \rightarrow -\frac{kq}{\sqrt{2}a^2}$
p. AN-5, Volume 2, Section 21.2, Problem 13	$30 \Omega \rightarrow 40 \Omega$
p. AN-5, Volume 2, Section 22.2, Problem 5	$8 \rightarrow -8$
p. AN-5, Volume 2, Section 22.3, Problem 5	$\frac{1}{2}x^2 + \frac{1}{2}y^2 + \sin x \to xy + \sin x$
p. AN-5, Volume 2, Section 23.2, Problem 15	$\sqrt{2}v \rightarrow \sqrt{2} v $