Errata 3rd Printing

Page 8, line 16: Subscripts on the last delta should be ki (not ij)

Page 17, line 10: change "Leibniz believed that" to "Leibniz suggested that for a system of interacting particles the quantity"

Page 29, answer to exercise 1.19: r squared should be r in last term.

Page 38, last line in footnote: Replace "Problem 1.12" with "Problem 1.7"

Page 42, Problem 1.3: Replace ", but if one ... to rise" with ". Determine the accelerations of the two hoops."

Page 57, two lines above bottom: C2 should be C (delete the number 2)

Page 62, line after Equation 2.23: Should read, "Equations (2.22)" not "Equations (2.21)"

Page 66, line 8: add to equation "= $\frac{1}{2} \oint_C d(\Phi)$ "; line 10: Replace Φ with A.

Page 67, line 3: Insert minus sign on right hand side of equation

Page 69, Problem 2.11: Replace Ψ with tan Ψ .

Page 88, line 4: Both equations: exponents in denominator should be 3/2.

Page 88, line 6, first equation: 1/r should be $1/r^2$.

Page 100, Exercise 4.5 Answer: \dot{p} should have a subscript x: $\dot{p}_x = -kx$.

Page 124, Equation 5.40: Change $\frac{\partial G}{\partial t}$ to $\frac{dG}{dt}$ in both terms. Page 132, Problem 5.7: Change "an integral" to "a constant" Page 138, Equation 6.9: Change $\frac{dW}{dq_i}$ to $\frac{\partial W}{\partial q}$. Page 143, Problem 6.5: Change q to Q. It should read, "Show that p_i, Q_i are canonical variables"

Page 145, Equation 7.1: Insert "dx" before the comma (after the large close parens)

Page 146, Exercise 7.1: add dx after y' and before comma

Page 149, line 2: In equation, insert partial y before the comma

Page 151, eight lines above bottom: Delete word "partial". Change partial derivatives with respect to time to total derivatives here and on the next page.

Page 152, line 5: change + to - and lines 6 and 7: change "left" to "right".

Page 161, line 13: In third term of equation change x_i to x_k .

Page 163, Equation 7.20: change + to -

Page 165, line 11: Third term of equation. Change $\frac{\partial}{\partial A_z}$ to $\frac{\partial}{\partial A_z}$

Page 166, last line: Insert =0 before the period.

Page 167, Problem 7.5: Change "is the" to "if the"

Page 169, Answers, 1.5 change a to α . 1.6 Change second and third M to m. 3.5 replace with $y = k \cosh(x/k)$. 3.6 Replace with $Q_r = mg(3\cos\theta - 2), \theta =$

48.19 degrees. 4.9 Replace $-kzz_0(t)$ with $+pA\omega\sin\omega t - mgA\cos\omega t$

Page 170 Answer 6.2 Replace $\left(\frac{\partial S}{\partial r}\right)$ with $\left(\frac{\partial S}{\partial r}\right)^2$ and in the square bracket insert the term $p_{\phi} \sin^2 \theta$.

For errata for 1st printing contact: Patrick.Hamill@sjsu.edu