- 1. Problem 5.4 parts a, b, c and e.
- 2. Problem 5.2
- 3. Problem 5.6 Noto: Error in 5th Printing and soonor. E

Note: Error in 5th Printing and sooner. Equation describing Newton's Law in Lagrangian Mechanics should read:

$$\left(\frac{\partial L}{\partial \mathbf{x}}\right)_{\dot{\mathbf{x}}} = \left(\frac{\partial}{\partial t}\right) \left(\frac{\partial L}{\partial \dot{\mathbf{x}}}\right)_{\mathbf{x}}$$

- 4. Problem 6.2
- 5. Problem 7.1

Be sure to state and justify all assumptions made