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 Chapter 4. Lagrangian Dynamics61 Figure 4-1 - A Simple Pendulum Of Mass M And Length l . Solution. In Cartesian Coordinates The Kinetic And Potential Energies, And The Lagrangian Are $T = \frac{1}{2} M \dot{x}^2 + \frac{1}{2} M \dot{y}^2$ $U = mgy$ $L = T - U = \frac{1}{2} M \dot{x}^2 + \frac{1}{2} M \dot{y}^2 - mgy$. (4.20) We Can N
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