Homework H.4.L
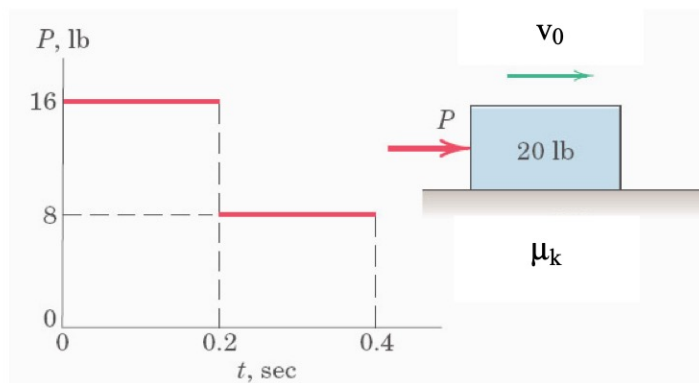
Given: A block is sliding to the right on a rough, horizontal surface with a speed of v_0 when a force P is applied.

Find: Determine the speed of the block at time t.

Use the following parameters in your analysis: $v_0 = 2$ ft/s, $\mu_k = 0.3$ and $t = 0.4$ s.