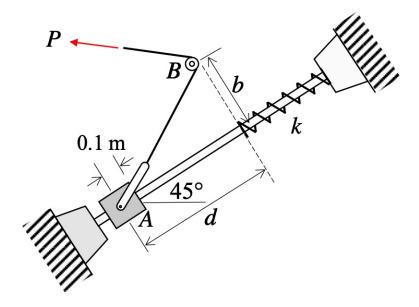
Homework H.4.I

Given: A constant force P acts at the free end of the cable as block A (having mass m) is pulled up the smooth rod. The system starts out from rest.

Find: Determine the stiffness k of the spring corresponding to a maximum spring compression of Δ_{max} .



Use the following parameters in your analysis: m=28 kg, P=50 N, b=1 m, d=1.2 m and $\Delta_{max}=0.02$ m.

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