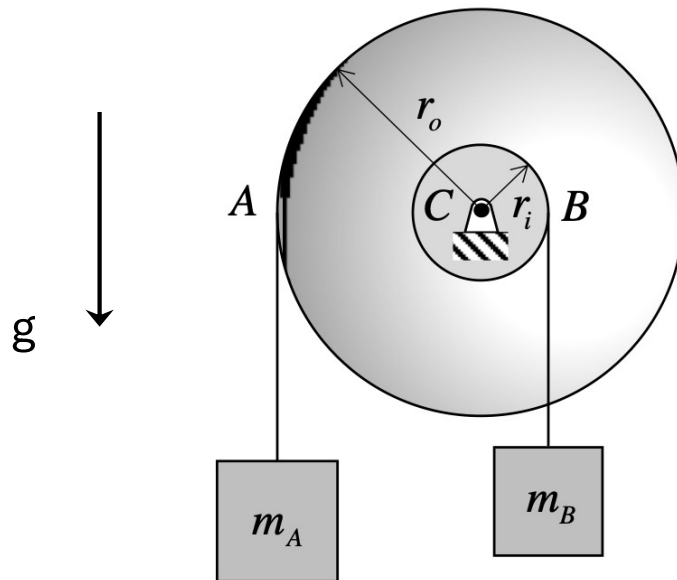


Homework H5.C

Given: A pulley of mass M is connected to two blocks as shown. Assume that the axle at C is frictionless, and that the pulley can be crudely modeled as a homogeneous disk.

Find: Determine the angular acceleration of the pulley and the acceleration of each block.



Use the following parameters in your analysis: $M = 10$ kg, $m_A = 12$ kg, $m_B = 9$ kg, $r_i = 0.06$ m and $r_o = 0.2$ m.