ROSE-HULMAN INSTITUTE OF TECHNOLOGY

Department of Mechanical Engineering

ES 204 Mechanical Systems

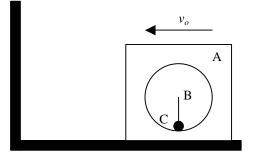
Example Problem - Le 03

Given: Sphere C and Block A are both moving to the left with a velocity of v_o when the block is suddenly stopped by the wall.

Point B is attached to block A.

Find: The smallest velocity for which the sphere will swing in a full circle about the pivot B if

- a) BC is a slender rod of negligible mass
- b) BC is a cord



Rod/Rope Example Page 1 of 1