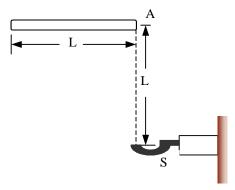
ROSE-HULMAN INSTITUTE OF TECHNOLOGY

Department of Mechanical Engineering

ES 204 Mechanical Systems

Example Problem - Le 15

Ex. The slender rod of mass *m* and length *L* is released from rest without rotating. When it falls a distance L, the end of A strikes the hook S, which provides a permanent connection. Determine the angular velocity of the rod after it has rotated 90 degrees. Treat the rod's weight during the impact as a non-impulsive force.



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