ROSE-HULMAN INSTITUTE OF TECHNOLOGY

Department of Mechanical Engineering

ES 204 Mechanical Systems

Example Problem - Le 16

Ex. A 1 kg ball moving horizontally at 12 m/s strikes a 10 kg block. The coefficient of restitution of the impact is e=0.6., and the coefficient of kinetic friction between the block and the inclined surface is 0.4. What distance does the block slide before stopping?

