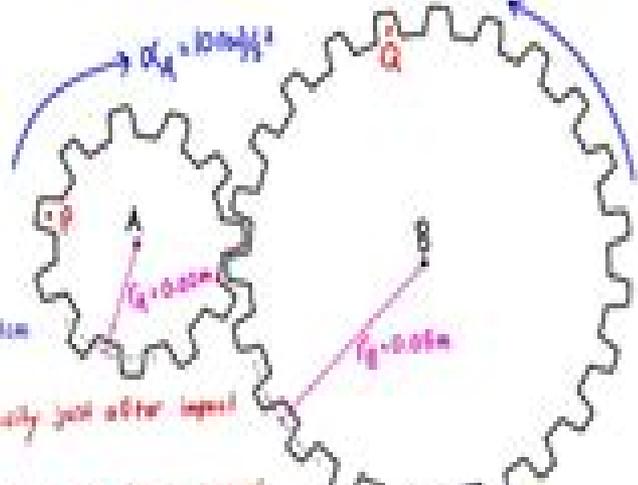




$m = 1048 \text{ kg}$
 $v_i = 0$
 $v_f = 100 \text{ km/h}$
 $t = 3 \text{ s}$
 $a = ?$

$u = 0 \text{ m/s}$
 $u = (3500)(\omega) = (3500)(\omega)$
 $u = (2100)(\omega) = (2100)(\omega)$
 $\omega = 2.197 \text{ rad/s} = 2.197 \text{ rev/s} = 2.197 \text{ Hz}$
 $\omega = 2.197 \text{ rad/s}$



$e = \frac{v_{B1} - v_{A1}}{v_{A1} - v_{B1}}$
 relative velocity just after impact
 relative velocity just before impact

Write conservation of momentum in x direction

Momentum before = Momentum after

$$m_A v_{Ax1} + m_B v_{Bx1} = m_A v_{Ax2} + m_B v_{Bx2}$$

$$(0.3 \text{ kg})(0.499 \text{ m/s}) + (0.45 \text{ kg})(0.499 \text{ m/s}) = (0.3 \text{ kg})v_{Ax2} + (0.45 \text{ kg})v_{Bx2}$$

$$0.2597 \text{ kg} \cdot \text{m/s} + 0.22455 \text{ kg} \cdot \text{m/s} = 0.3 v_{Ax2} + 0.45 v_{Bx2}$$

$$0.48425 \text{ kg} \cdot \text{m/s} = 0.3 v_{Ax2} + 0.45 v_{Bx2}$$

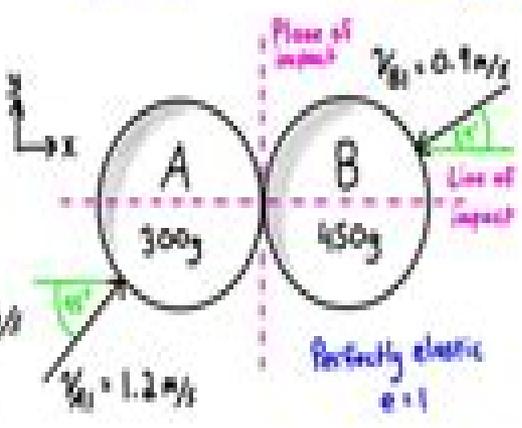
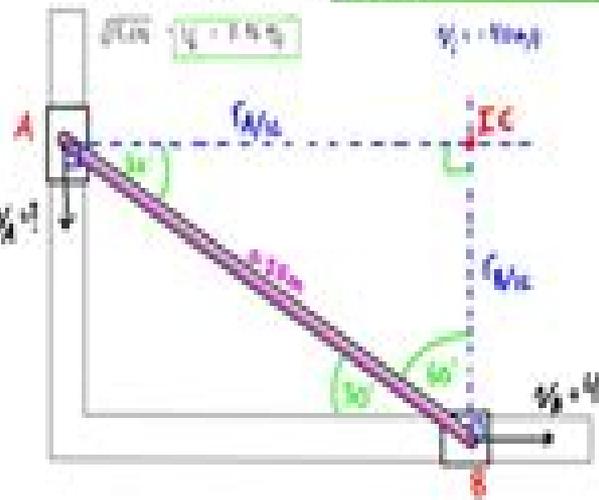
$$0.48425 \text{ m/s} = 0.3 v_{Ax2} + 0.45 v_{Bx2}$$



$T_1 = T_2 = T_3 = T_4$
 $(m_1)(r_1)(\omega) = (m_2)(r_2)(\omega)$
 $(1 \text{ kg})(1 \text{ m})(\omega) = (1 \text{ kg})(1 \text{ m})(\omega)$
 $1 \text{ kg} \cdot \text{m} \cdot \omega = 1 \text{ kg} \cdot \text{m} \cdot \omega$



Notice that 0.48425 is the "momentum before"



$T_1 + \sum U_{1-2} = T_2$
 Initial kinetic energy = Final kinetic energy
 No work done
 $T_1 = \frac{1}{2} m v_1^2$
 $T_2 = \frac{1}{2} m v_2^2$
 $\sum U_{1-2} = F s \cos \theta$
 Force of friction
 No work because friction opposes the motion

Lecture Notes Engineering Mechanics Dynamics Problem Solutions

SJ Ball



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