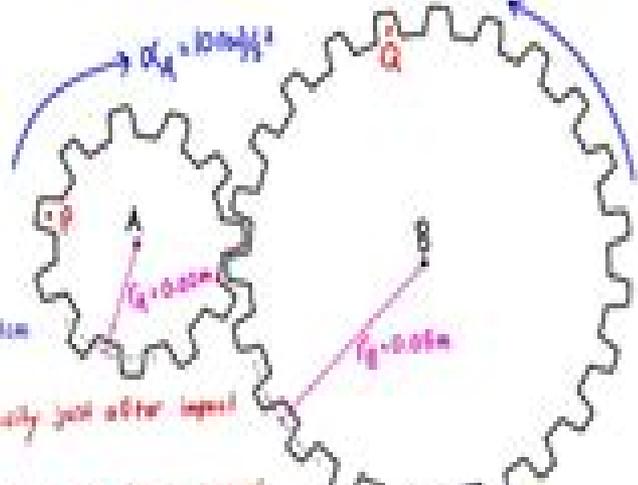




$m = 1048 \text{ kg}$
 $v_i = 0$
 $v_f = 100 \text{ km/h}$
 $t = 3 \text{ s}$
 $a = ?$

$u = 0 \text{ m/s}$
 $u = (3500)(\omega) \text{ (cm/s)}$
 $u = (2100)(\omega) \text{ (cm/s)}$
 $\omega = 2.197 \text{ rad/s} = 2.197 \text{ (1/s)}$
 $\omega = 2.197 \text{ rad/s}$



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

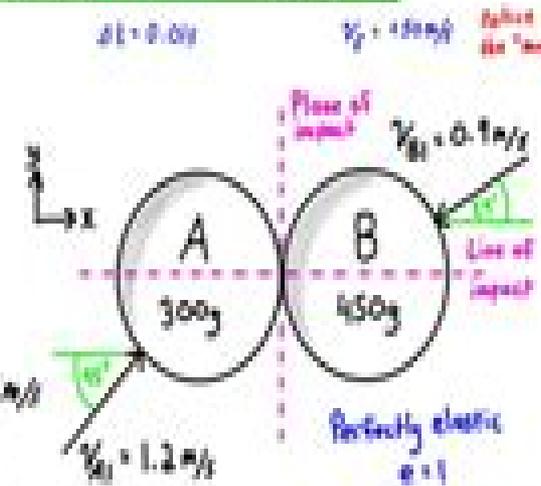
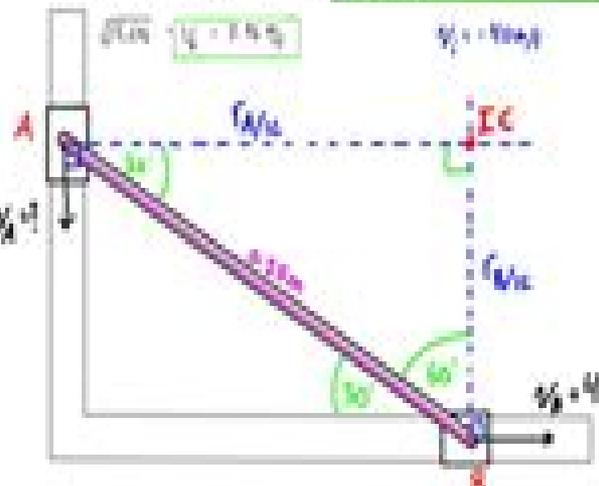
Write conservation of momentum in x direction

Momentum before = Momentum after

$$m_A v_{Ax} + m_B v_{Bx} = m_A v'_{Ax} + m_B v'_{Bx}$$

$$\begin{aligned}
 (0.3 \text{ kg})(0.2197 \text{ m/s}) + (0.45 \text{ kg})(0.2197 \text{ m/s}) &= (0.3 \text{ kg})v'_{Ax} + (0.45 \text{ kg})v'_{Bx} \\
 0.2547 \text{ kg} \cdot \text{m/s} + 0.3881 \text{ kg} \cdot \text{m/s} &= 0.3 v'_{Ax} + 0.45 v'_{Bx} \\
 0.6428 \text{ kg} \cdot \text{m/s} &= 0.3 v'_{Ax} + 0.45 v'_{Bx}
 \end{aligned}$$

$T_1 = T_2 = T_3 = T_4$
 $(m_1)(r_1)(\omega) = (m_2)(r_2)(\omega)$
 $(1 \text{ kg})(1 \text{ m})(\omega) = (2 \text{ kg})(0.5 \text{ m})(\omega)$
 $1 \text{ kg} \cdot \text{m} \cdot \omega = 1 \text{ kg} \cdot \text{m} \cdot \omega$



Initial kinetic energy $T_i + \sum U_{1-2} = T_f$ Final kinetic energy
 No work done
 $T_i = \frac{1}{2} m v_i^2$
 $T_f = \frac{1}{2} m v_f^2$
 $\sum U_{1-2} = F_s \cos \theta$ (force of friction)

Lecture Notes Engineering Mechanics Dynamics Problem Solutions

B Lingard



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