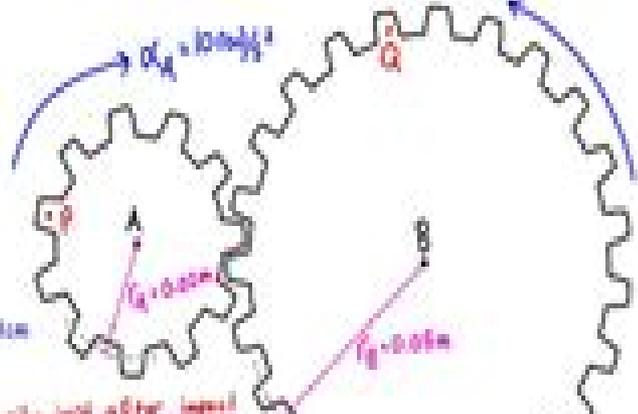




$m = 1048 \text{ kg}$   
 $v_i = 0$   
 $v_f = 100 \text{ km/h}$   
 $t = 3 \text{ s}$   
 $a = ?$

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



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

Write conservation of momentum in x direction

Momentum before = Momentum after

$$m_1 v_{1ix} + m_2 v_{2ix} = m_1 v_{1fx} + m_2 v_{2fx}$$

$$(0.3 \text{ kg})(0.499 \text{ m/s}) + (0.45 \text{ kg})(0.499 \text{ m/s}) = (0.3 \text{ kg})v_{1fx} + (0.45 \text{ kg})v_{2fx}$$

$$0.2597 \text{ kg} \cdot \text{m/s} + 0.22455 \text{ kg} \cdot \text{m/s} = 0.3 v_{1fx} + 0.45 v_{2fx}$$

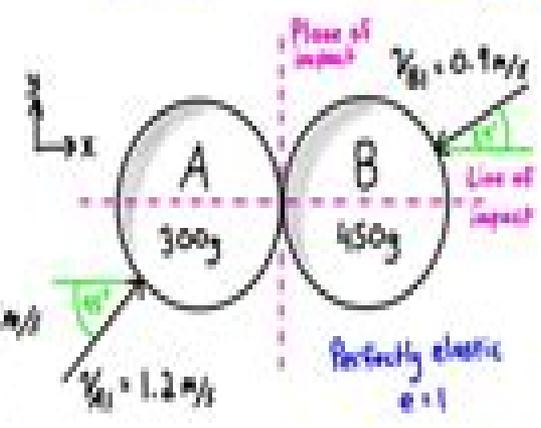
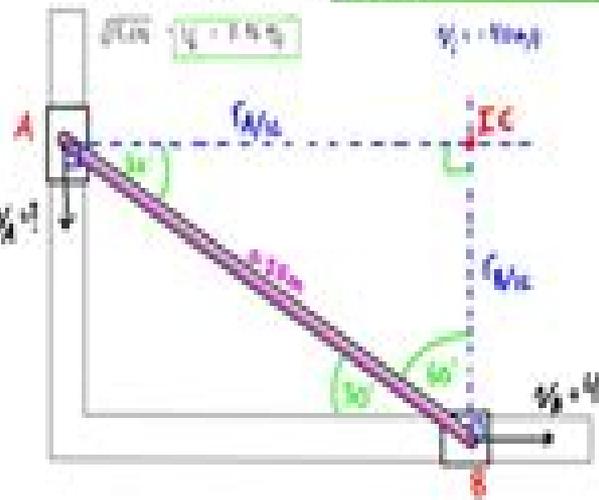
$$0.48425 \text{ kg} \cdot \text{m/s} = 0.3 v_{1fx} + 0.45 v_{2fx}$$

$$0.48425 \text{ kg} \cdot \text{m/s} = 0.3 v_{1fx} + 0.45 v_{2fx}$$

Notice that 0.48425 is the "momentum before"



$T_1 \cdot r_1 = T_2 \cdot r_2$   
 $(m_1 g) \cdot r_1 \sin(\theta) = (m_2 g) \cdot r_2 \sin(\theta)$   
 $(100 \text{ kg}) \cdot (1 \text{ m})$



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

# Engineering Dynamics

**WJ Hussar**



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