

$$e = \frac{v_1 - v_2}{v_1 + v_2}$$

relative velocity just after impact
relative velocity just before impact

Write conservation of momentum in a direction
momentum before = momentum after

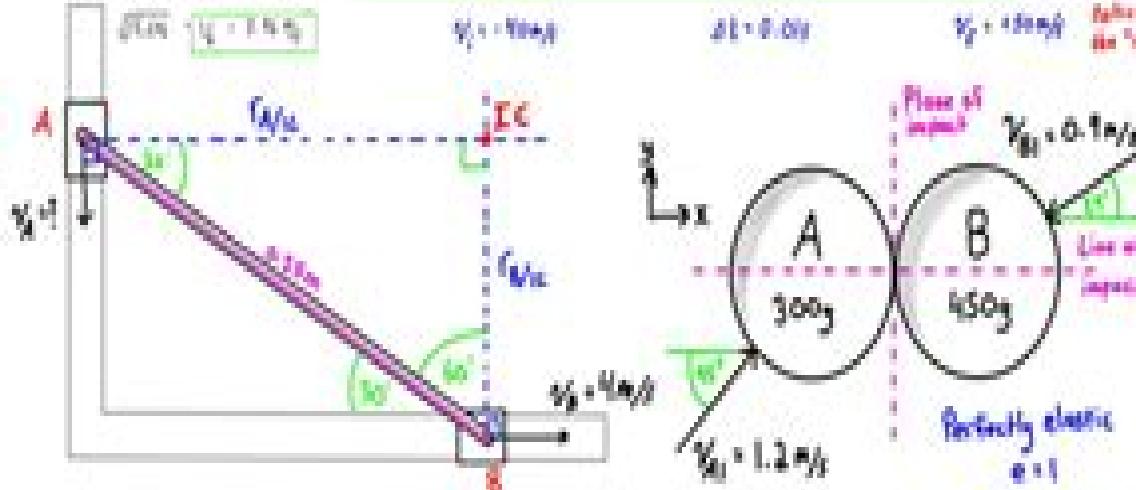
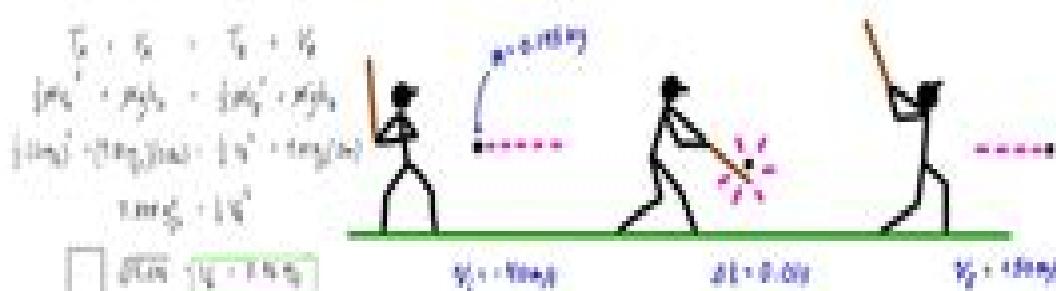
$$m_1 v_{1i} = m_1 v_{1f} + m_2 v_{2f}$$

$$(0.36)(0.149 \text{ m/s}) + (0.48)(0.049 \text{ m/s}) = (0.36)v_{1f} + (0.48)v_{2f}$$

$$0.0537 \text{ m/s} + 0.0231 \text{ m/s} = 0.149 \text{ m/s} + 0.48 \text{ m/s}$$

$$0.0537 \text{ m/s} = 0.6368 \text{ m/s} - 0.149 \text{ m/s} + 0.48 \text{ m/s}$$

$$0.0537 \text{ m/s} = 0.3879 \text{ m/s} \quad ①$$



$$T_i + \sum U_{i\rightarrow f} = T_f + \sum U_{f\rightarrow i}$$

Final kinetic energy
Initial kinetic energy
The work done

$$T_i = \frac{1}{2} m v_i^2$$

$$T_f = \frac{1}{2} m v_f^2$$

$\sum U_{i\rightarrow f} = F_{\text{friction}} \times d$
 No! because friction opposes the motion
 $\sum U_{i\rightarrow f} = f_{\text{friction}} \times d$

Mechanics Statics And Dynamics Problem Solver

**Gary Gray,Francesco Costanzo,Michael
Plesha**

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