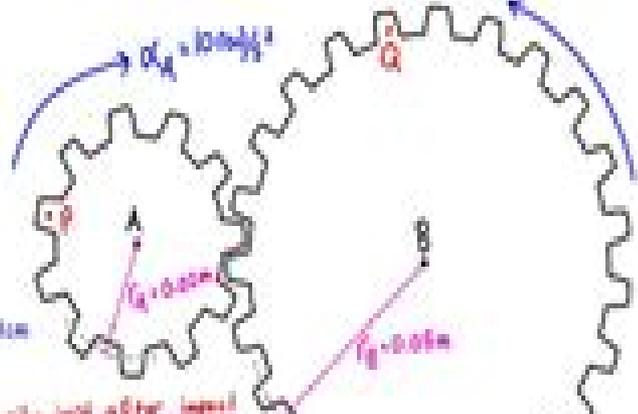




$m = 1048 \text{ kg}$
 $v_i = 0$
 $v_f = 100 \text{ km/h}$
 $t = 3 \text{ s}$
 $a = ?$

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



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

Write conservation of momentum in x direction

Momentum before = Momentum after

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

$$(0.3 \text{ kg})(0.2197 \text{ m/s}) + (0.45 \text{ kg})(0.2197 \text{ m/s}) = (0.3 \text{ kg})v_{Ax2} + (0.45 \text{ kg})v_{Bx2}$$

$$0.254775 \text{ kg} \cdot \text{m/s} + 0.388125 \text{ kg} \cdot \text{m/s} = 0.3 v_{Ax2} + 0.45 v_{Bx2}$$

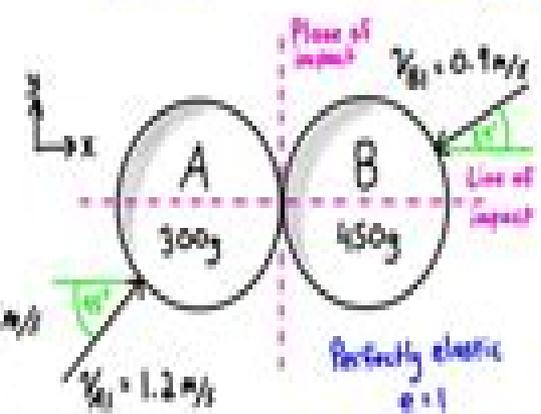
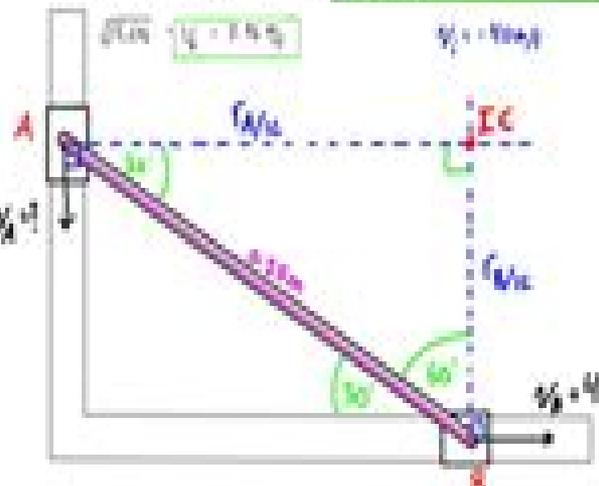
$$0.6429 \text{ kg} \cdot \text{m/s} = 0.3 v_{Ax2} + 0.45 v_{Bx2}$$

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



Notice that 0.6429 is the "momentum before"

$$0.6429 \text{ kg} \cdot \text{m/s} = 0.3 v_{Ax2} + 0.45 v_{Bx2}$$



Initial kinetic energy $T_i + \sum U_{1-2} = T_f$ Final kinetic energy

No work done

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

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

$\sum U_{1-2} = F_f \cos \theta$
 No because friction opposes the motion
 Force of friction

Engineering Mechanics Dynamics

J Dewey



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Table of Contents Engineering Mechanics Dynamics

1. Understanding the eBook Engineering Mechanics Dynamics
 - The Rise of Digital Reading Engineering Mechanics Dynamics
 - Advantages of eBooks Over Traditional Books
2. Identifying Engineering Mechanics Dynamics
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Engineering Mechanics Dynamics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Engineering Mechanics Dynamics
 - Personalized Recommendations
 - Engineering Mechanics Dynamics User Reviews and Ratings
 - Engineering Mechanics Dynamics and Bestseller Lists
5. Accessing Engineering Mechanics Dynamics Free and Paid eBooks
 - Engineering Mechanics Dynamics Public Domain eBooks
 - Engineering Mechanics Dynamics eBook Subscription Services
 - Engineering Mechanics Dynamics Budget-Friendly Options
6. Navigating Engineering Mechanics Dynamics eBook Formats

- ePub, PDF, MOBI, and More
 - Engineering Mechanics Dynamics Compatibility with Devices
 - Engineering Mechanics Dynamics Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Engineering Mechanics Dynamics
 - Highlighting and Note-Taking Engineering Mechanics Dynamics
 - Interactive Elements Engineering Mechanics Dynamics
 8. Staying Engaged with Engineering Mechanics Dynamics
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Engineering Mechanics Dynamics
 9. Balancing eBooks and Physical Books Engineering Mechanics Dynamics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Engineering Mechanics Dynamics
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Engineering Mechanics Dynamics
 - Setting Reading Goals Engineering Mechanics Dynamics
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Engineering Mechanics Dynamics
 - Fact-Checking eBook Content of Engineering Mechanics Dynamics
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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