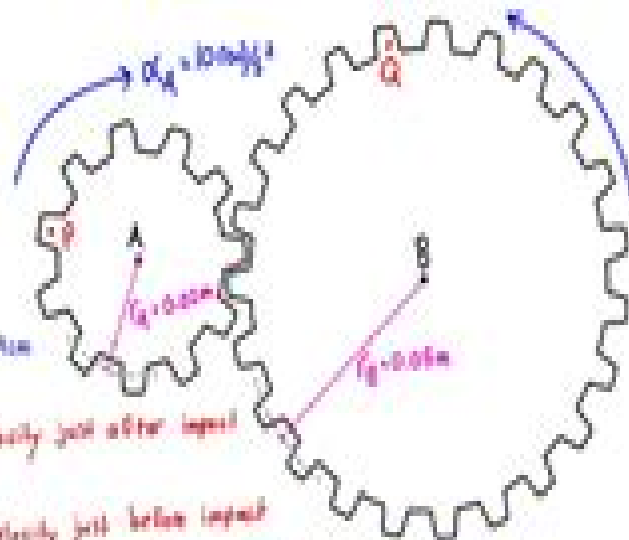
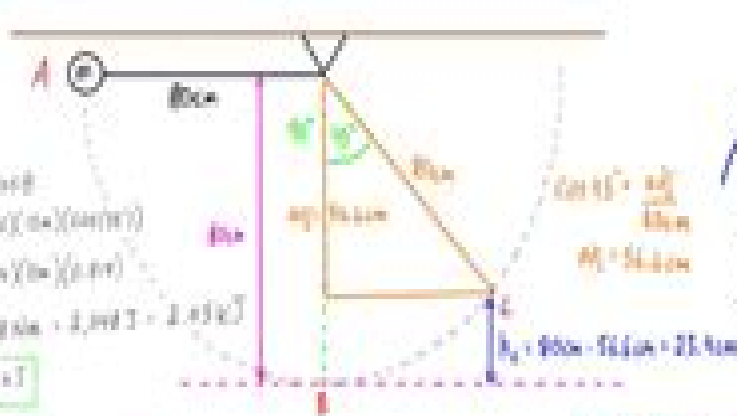




$$\begin{aligned}
 m &= 1048 \text{ kg} \\
 v_i &= 0 \\
 v_f &= 100 \text{ km/h} \\
 t &= 37 \text{ s} \\
 P_{avg} &?
 \end{aligned}$$

$$\begin{aligned}
 U &= F \cdot d \cos \theta \\
 U &= (3500 \text{ N}) \cdot (100 \text{ m}) \cos(0^\circ) \\
 U &= (3500 \text{ N}) \cdot (100 \text{ m}) \cdot (1) \\
 U &= 3.5 \times 10^5 \text{ J} \\
 U &= 3.5 \times 10^5 \text{ J}
 \end{aligned}$$



$$e = \frac{v_{B1} - v_{A1}}{v_{A1} - v_{B1}}$$

relative velocity just after impact

relative velocity just before impact

Write conservation of momentum in x direction

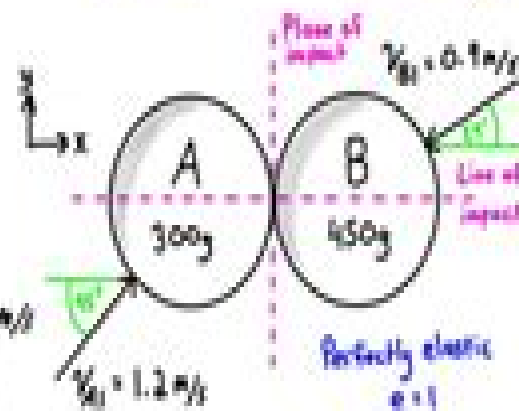
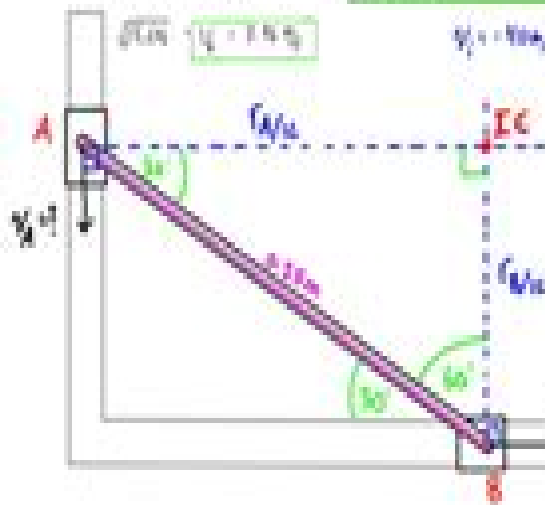
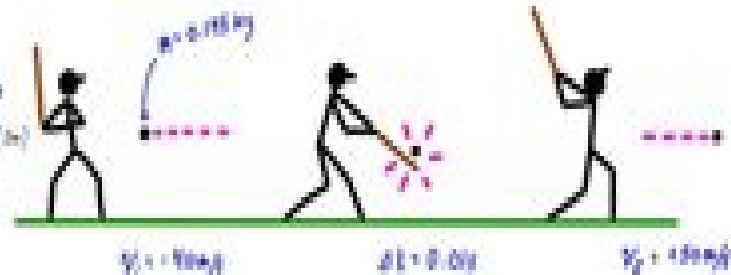
Momentum before = Momentum after

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

$$\begin{aligned}
 (0.3 \text{ kg})(0.449 \text{ m/s}) + (0.45 \text{ kg})(0.449 \text{ m/s}) &= (0.3 \text{ kg})v_{Ax2} + (0.45 \text{ kg})v_{Bx2} \\
 0.2547 \text{ kg} \cdot \text{m/s} + 0.20205 \text{ kg} \cdot \text{m/s} &= 0.3 \text{ kg} v_{Ax2} + 0.45 \text{ kg} v_{Bx2} \\
 0.45675 \text{ kg} \cdot \text{m/s} &= 0.3 \text{ kg} v_{Ax2} + 0.45 \text{ kg} v_{Bx2} \\
 0.45675 \text{ kg} \cdot \text{m/s} &= 0.3 \text{ kg} v_{Ax2} + 0.45 \text{ kg} v_{Bx2} \quad (1)
 \end{aligned}$$

Notice that 0.45675 is the "momentum before"

$$\begin{aligned}
 T_1 + U_1 &= T_2 + U_2 \\
 \frac{1}{2} m v_1^2 + m g h_1 &= \frac{1}{2} m v_2^2 + m g h_2 \\
 \frac{1}{2} (100 \text{ kg}) (10 \text{ m/s})^2 + (100 \text{ kg}) (10 \text{ m}) &= \frac{1}{2} (100 \text{ kg}) v_2^2 + (100 \text{ kg}) (10 \text{ m}) \\
 5000 \text{ J} + 1000 \text{ J} &= 50 v_2^2 + 1000 \text{ J} \\
 6000 \text{ J} &= 50 v_2^2 + 1000 \text{ J} \\
 5000 \text{ J} &= 50 v_2^2 \\
 v_2 &= 10 \text{ m/s}
 \end{aligned}$$



$$T_i + \sum U_{1-2} = T_f$$

Initial kinetic energy

Final kinetic energy

The work done

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

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

$$\sum U_{1-2} = F s \cos \theta$$

Force of friction

No because friction opposes the motion

Engineering Dynamics

RJ Shavelson



Engineering Dynamics:

Engineering Dynamics N. Jeremy Kasdin, Derek A. Paley, 2011-03-14 *Engineering Dynamics* spans the full range of mechanics problems from one dimensional particle kinematics to three dimensional rigid body dynamics including an introduction to Lagrange's and Kane's methods. It skillfully blends an easy to read conversational style with careful attention to the physics and mathematics of engineering dynamics and emphasizes the formal systematic notation students need to solve problems correctly and succeed in more advanced courses.

Engineering Dynamics Roger F. Gans, 2013-03-22 This engineering dynamics textbook is aimed at beginning graduate students in mechanical engineering and other related engineering disciplines who need training in dynamics as applied to engineering mechanisms. It introduces the formal mathematical development of Lagrangian mechanics and its corollaries while solving numerous engineering applications. The author's goal is to instill an understanding of the basic physics required for engineering dynamics while providing a recipe algorithm for the simulation of engineering mechanisms such as robots. The book will be reasonably self contained so that the practicing engineer interested in this area can also make use of it. This book is made accessible to the widest possible audience by numerous solved examples and diagrams that apply the principles to real engineering applications. Provides an applied textbook for intermediate advanced engineering dynamics courses. Discusses Lagrangian mechanics in the context of numerous engineering applications. Includes numerous solved examples, illustrative diagrams and applied exercises in every chapter.

Engineering Dynamics Oliver M. O'Reilly, 2019-02-23 This primer is intended to provide the theoretical background for the standard undergraduate mechanical engineering course in dynamics. Representative problems are discussed and simulated throughout the book to illustrate fundamental concepts and explore the development of mathematical models for mechanical systems. The text grew out of the author's desire to provide a complement to traditional texts on the subject and promote a systematic approach to problem solving. For all the examples discussed in the primer, a systematic four step approach is employed. The third edition of the text has been revised in response to student comments on earlier editions and the increased availability of simulation software. The revisions include the addition of several new examples of models for the dynamics of systems ranging from an aerosol spray to a spherical robot. The primer has three intended audiences: undergraduate students enrolled in an introductory course on engineering dynamics; graduate students who are interesting in refreshing their knowledge; and instructors. Review of Second Edition: The book is carefully written and provides a good introduction to the subject. The main objective of this primer is to reduce the gap between the theoretical framework and an undergraduate student's ability to solve typical problems of undergraduate dynamics. Well selected problems illustrate a systematic four step methodology for solving problems from the dynamics of single particles of systems of particles of a single rigid body and of a system of particles and rigid bodies. At the end of each chapter, some illustrative examples were added.

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Edward Diehl,2020-09-30 Engineering Dynamics Course Companion Part 2 Rigid Bodies Kinematics and Kinetics is a supplemental textbook intended to assist students especially visual learners in their approach to Sophomore level Engineering Dynamics This text covers particle kinematics and kinetics and emphasizes Newtonian Mechanics Problem Solving Skills in an accessible and fun format organized to coincide with the first half of a semester schedule many instructors choose and supplied with numerous example problems While this book addresses Rigid Body Dynamics a separate book Part 1 is available that covers Particle Dynamics *Engineering Dynamics and Vibrations* Junbo Jia,Jeom Kee

Paik,2018-12-12 Engineering dynamics and vibrations has become an essential topic for ensuring structural integrity and operational functionality in different engineering areas However practical problems regarding dynamics and vibrations are in many cases handled without success despite large expenditures This book covers a wide range of topics from the basics to advances in dynamics and vibrations from relevant engineering challenges to the solutions from engineering failures due to inappropriate accounting of dynamics to mitigation measures and utilization of dynamics It lays emphasis on engineering applications utilizing state of the art information **Engineering Dynamics** Cho W. S. To,2018-07-05 Engineering Dynamics is an introductory textbook covering the kinematics and dynamics of particles systems of particles and kinematics

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Similarity Methods in Engineering Dynamics P.S. Westine,F.T. Dodge,W.E. Baker,2012-12-02 Here is the second revised and updated edition of probably the most practical sourcebook on similarity methods and modeling techniques available Written by leading authorities who incorporate many of the latest advances in the field this new work maps out techniques for modeling as well as instrumentation and data analysis for an extremely wide array of problems in engineering dynamics This practical reference uses experimental test data on various engineering problems demonstrating exactly how and why these similarity methods work The problems involve spread of oil slicks explosive cratering car crashes space vehicle heat exchange explosive forming and more The spectrum of topics covered and number of examples are far greater than in other texts Of particular importance are the dissimilar material modeling techniques which bring new versatility and freedom to the modeler in structural dynamics The book also contains a clear in depth discussion of the theory underlying modeling and includes alternate methods for developing model laws The work will undoubtedly prove invaluable to every professional involved in testing or design of dynamic experiments

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Dynamics in Engineering Practice Dara W. Childs,Andrew P. Conkey,2015-04-17 Observing that most books on engineering dynamics left students lacking and failing to grasp the general nature of dynamics in engineering practice the authors of Dynamics in Engineering Practice Eleventh Edition focused their efforts on remedying the problem This text shows readers how to develop and analyze models to predict motion While esta

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