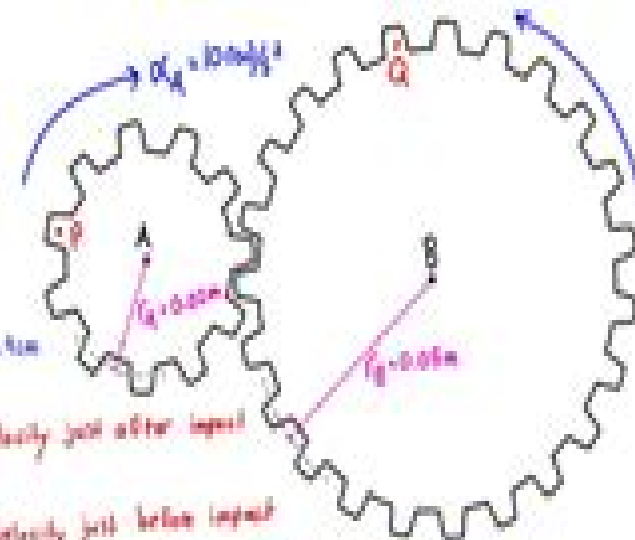
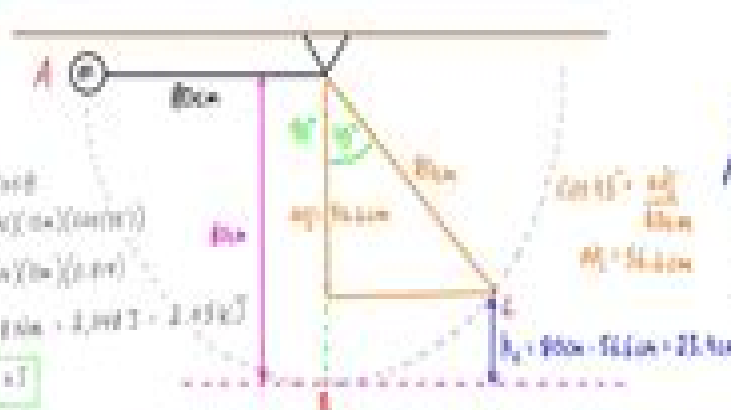




$m = 1048 \text{ kg}$
 $v_i = 0$
 $v_f = 100 \text{ km/h}$
 $t = 37 \text{ s}$
 $P_{avg} = ?$

$W = F \cdot d \cos \theta$
 $W = (3500 \text{ N}) \cdot (100 \text{ m}) \cdot \cos(0^\circ)$
 $W = (3500 \text{ N}) \cdot (100 \text{ m}) \cdot (1.00)$
 $W = 3.5 \times 10^5 \text{ J}$
 $P = \frac{W}{t} = \frac{3.5 \times 10^5 \text{ J}}{37 \text{ s}} = 9.46 \times 10^3 \text{ W}$
 $P = 9.46 \text{ kW}$

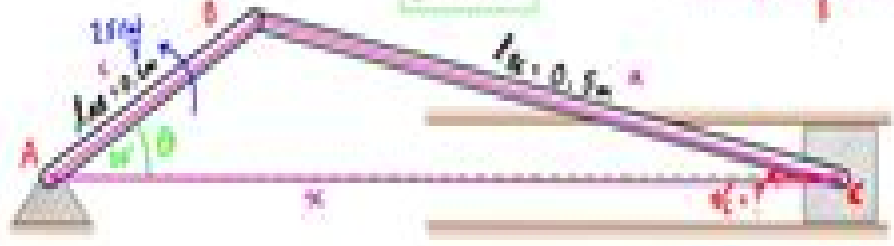


$e = \frac{v_{B1} - v_{A1}}{v_{A1} - v_{B1}}$
 relative velocity just after impact
 relative velocity just before impact

Write conservation of momentum in x direction

Momentum before = Momentum after

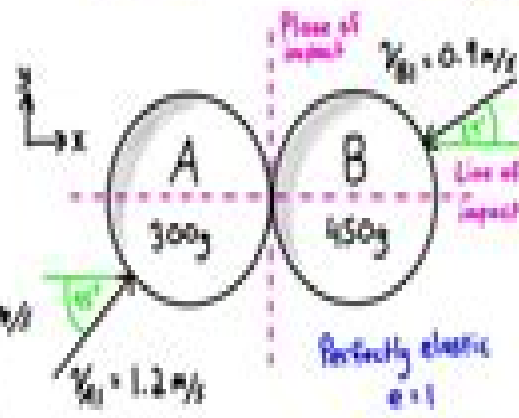
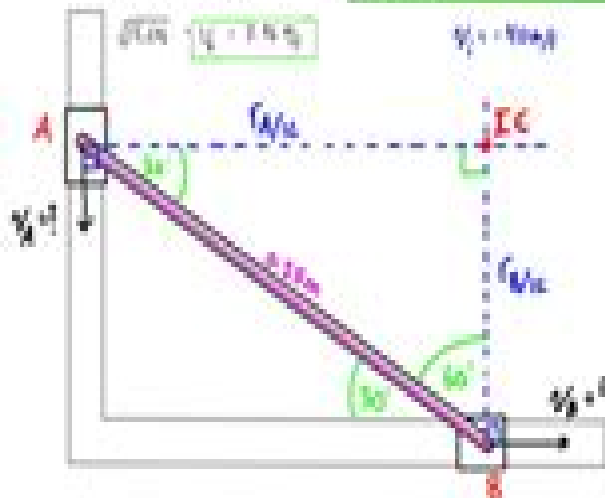
$m_A v_{Ax1} + m_B v_{Bx1} = m_A v_{Ax2} + m_B v_{Bx2}$
 $(0.3 \text{ kg})(0.449 \text{ m/s}) + (0.45 \text{ kg})(0.449 \text{ m/s}) = (0.3 \text{ kg})v_{Ax2} + (0.45 \text{ kg})v_{Bx2}$
 $0.2547 \text{ kg} \cdot \text{m/s} + 0.20205 \text{ kg} \cdot \text{m/s} = 0.3 \text{ kg} v_{Ax2} + 0.45 \text{ kg} v_{Bx2}$
 $0.45675 \text{ kg} \cdot \text{m/s} = 0.3 \text{ kg} v_{Ax2} + 0.45 \text{ kg} v_{Bx2}$
 $0.45675 \text{ m/s} = 0.3 v_{Ax2} + 0.45 v_{Bx2}$



$T_1 + F_1 = T_2 + F_2$
 $(m_1 g) + (m_2 g) = (m_1 g) + (m_2 g)$
 $(100 \text{ kg}) + (100 \text{ kg}) = (100 \text{ kg}) + (100 \text{ kg})$
 $200 \text{ kg} = 200 \text{ kg}$



Notice that 0.45675 is the "momentum before"



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

Raffaela Di Napoli



Engineering Dynamics:

Engineering Dynamics Oliver M. O'Reilly, 2013-03-09 Scope Aims and Audiences This primer is intended to provide the theoretical background for the standard undergraduate course in dynamics This course is usually based on one of the following texts Bedford and Fowler 6 Beer and John ston 7 Hibbeler 33 Meriam and Kraige 39 Riley and Sturges 50 and Shames 56 among others Although most teachers will have cer tain reservations about these texts there appears to be a general consensus that the selection of problems each of them presents is an invaluable and essential aid for studying and understanding dynamics I myself use Meriam and Kraige 39 when teaching such a course which is referred to as ME104 at the University of California at Berkeley However I have found that the gap between the theory presented in the aforementioned texts and the problems I wished my students to solve was too large As a result I prepared my own set of notes on the relevant theory and I used Meriam and Kraige 39 as a problem and homework resource This primer grew out of these notes Its content was also heavily influenced by three other courses that I teach one on rigid body dynamics one on La 1 grangian mechanics and another on Hamiltonian mechanics Because I use the primer as a supplement I have only included a set of brief exercises at the end of each chapter

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Advanced Engineering Dynamics H. Harrison, T. Nettleton, 1997-08-01 Advanced Engineering Dynamics bridges the gap between elementary dynamics and advanced specialist applications in engineering It begins with a reappraisal of Newtonian

principles before expanding into analytical dynamics typified by the methods of Lagrange and by Hamilton's Principle and rigid body dynamics Four distinct vehicle types satellites rockets aircraft and cars are examined highlighting different aspects of dynamics in each case Emphasis is placed on impact and one dimensional wave propagation before extending the study into three dimensions Robotics is then looked at in detail forging a link between conventional dynamics and the highly specialised and distinctive approach used in robotics The text finishes with an excursion into the Special Theory of Relativity mainly to define the boundaries of Newtonian Dynamics but also to re appraise the fundamental definitions Through its examination of specialist applications highlighting the many different aspects of dynamics this text provides an excellent insight into advanced systems without restricting itself to a particular discipline The result is essential reading for all those requiring a general understanding of the more advanced aspects of engineering dynamics

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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 and dynamics of rigid bodies It has been developed from lecture notes given by the author since 1982 It includes sufficient topics normally covered in a single semester three credit hour course taken by sophomores in an undergraduate degree program majoring in various engineering disciplines The primary focus of the book is on kinematics and dynamics of particles kinematics and dynamics of systems of particles and kinematics and dynamics of rigid bodies in two and three dimensional spaces It aims at providing a short book relative to many available in literature but with detailed solutions to representative examples Exercise questions are included

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numerous engineering applications Includes numerous solved examples illustrative diagrams and applied exercises in every chapter

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Chemical Engineering Dynamics John Ingham, Irving J. Dunn, Elmar Heinzle, Jiri E. Prenosil, Jonathan B. Snape, 2008-02-08 In this book the modelling of dynamic chemical engineering processes is presented in a highly understandable way using the unique combination of simplified fundamental theory and direct hands on computer simulation The mathematics is kept to a minimum and yet the nearly 100 examples supplied on www.wiley-vch.de illustrate almost every aspect of chemical engineering science Each example is described in detail including the model equations They are written in the modern user friendly simulation language Berkeley Madonna which can be run on both Windows PC and Power Macintosh computers Madonna solves models comprising many ordinary differential equations using very simple programming including arrays It is so powerful that the model parameters may be defined as sliders which allow the effect of their change on the model behavior to be seen almost immediately Data may be included for curve fitting and sensitivity or multiple runs may be performed The results can be seen simultaneously on multiple graph windows or by using overlays The resultant learning effect of this is tremendous The examples can be varied to fit any real situation and the suggested exercises provide practical guidance The extensive experience of the authors both in university teaching and international courses is reflected in this well balanced presentation which is suitable for the teacher the student the chemist or the engineer This book provides a greater understanding of the formulation and use of mass and energy balances for chemical engineering in a most stimulating manner This book is a third edition which also includes biological environmental and food process examples

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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

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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 *Further Engineering Dynamics* Jorgen C. Maltbaek, 1980 Engineering Dynamics Labs with SOLIDWORKS Motion 2015 Huei-Huang Lee, 2015-04 This book is designed as a software based lab book to complement a standard textbook in an engineering dynamics course which is usually taught at the undergraduate level This book can also be used as an auxiliary workbook in a CAE or Finite Element Analysis course for undergraduate students Each book comes with a disc containing video demonstrations a quick introduction to SOLIDWORKS eBook and all the part files used in the book This textbook has been carefully developed with the understanding that CAE software has developed to a point that it can be used as a tool to aid students in learning engineering ideas concepts and even formulas These concepts are demonstrated in each section of this book Using the graphics based tools of SOLIDWORKS Motion can help reduce the dependency on mathematics to teach these concepts substantially The contents of this book have been written to match the contents of most mechanics of materials textbooks There are 11 chapters in this book Each chapter contains two sections Each section is designed for a student to follow the exact steps in that section and learn a concept or topic of Engineering Dynamics Typically each section takes 20 40 minutes to complete the exercises Each copy of this book comes with a disc containing videos that demonstrate the steps used in each section of the book a 123 page introduction to Part and Assembly Modeling with SOLIDWORKS in PDF format and all the files readers may need if they have any trouble The concise introduction to SOLIDWORKS PDF is designed for those students who have no experience with SOLIDWORKS and want to feel more comfortable working on the exercises in this book All of the same content is available for download on the book s companion website Ebook: Vector Mechanics Engineering: Dynamics SI BEER, 2010-12-16 Ebook Vector Mechanics Engineering Dynamics SI **Substructuring in Engineering Dynamics** Matthew S. Allen, Daniel Rixen, Maarten van der Seijs, Paolo Tiso, Thomas Abrahamsson, Randall L. Mayes, 2019-08-01 This book reviews the most common state of the art methods for substructuring and model reduction and presents a framework that encompasses most method highlighting their similarities and differences For example popular methods such as Component Mode Synthesis Hurty Craig Bampton and the Rubin methods which are popular within finite element software are reviewed Similarly experimental to analytical substructuring methods such as impedance frequency

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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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