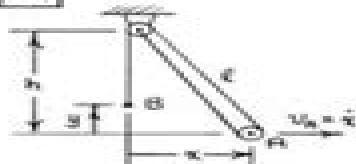


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Length of cable is

$$L = h - y + 2l + \text{constant} = h - y + 2\sqrt{x^2 + h^2} + \text{const.}$$

$$L = 0 = -\dot{y} + \frac{2x\dot{x}}{\sqrt{x^2 + h^2}}$$

Substitute  $v_A$  for  $\dot{x}$  and  $v_B$  for  $\dot{y}$ :

$$v_B = \frac{2x}{\sqrt{x^2 + h^2}} v_A \quad (\text{A times as fast as B})$$

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$$x^2 + y^2 = L^2; \quad x\dot{x} + y\dot{y} = 0$$

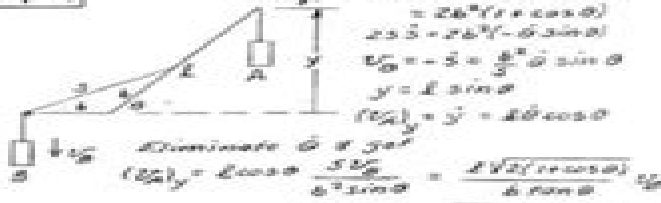
$$\dot{x}^2 + x\ddot{x} + \dot{y}^2 + y\ddot{y} = 0$$

$$\text{but } \dot{y} = v_A, \quad \ddot{y} = 0$$

$$\text{so } a_x \dot{x} = -\frac{\dot{x}^2 + v_A^2}{x} = -\frac{\dot{x}^2}{x} - \frac{v_A^2}{x}$$

$$a_x = -\frac{\dot{x}^2}{x} - \frac{v_A^2}{x} = -\frac{L^2 \dot{\theta}^2}{(L^2 - y^2)^{3/2}}$$

2/229



$$x^2 + y^2 = L^2; \quad x\dot{x} + y\dot{y} = 0$$

$$\dot{x}^2 + x\ddot{x} + \dot{y}^2 + y\ddot{y} = 0$$

$$\text{but } \dot{y} = v_A, \quad \ddot{y} = 0$$

$$\text{so } a_x \dot{x} = -\frac{\dot{x}^2 + v_A^2}{x} = -\frac{\dot{x}^2}{x} - \frac{v_A^2}{x}$$

$$a_x = -\frac{\dot{x}^2}{x} - \frac{v_A^2}{x} = -\frac{L^2 \dot{\theta}^2}{(L^2 - y^2)^{3/2}}$$

$$(v_A)_y = \dot{y} = L\dot{\theta} \cos \theta$$

Eliminate  $\theta$  &  $\dot{\theta}$ 

$$(v_A)_y = L \cos \theta \frac{5v_B}{6^2 \sin \theta} = \frac{5\sqrt{2}(1 + \cos \theta)}{6 \tan \theta} v_B$$

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$$\text{Cable length } L = 3(s_B - s_A) + (s_O - s_A)$$

$$0 = 3v_B - 4v_A, \quad 0 = 3a_B - 4a_A$$

$$v_A = \frac{3}{4} v_B = \frac{3}{4} (2) = 1.5 \text{ m/s}$$

$$a_A = \frac{3}{4} a_B = \frac{3}{4} (3) = 2.25 \text{ m/s}^2$$

$$v_{E/A} = v_B - v_A = 2 - (1.5) = 0.5 \text{ m/s}$$

$$a_{E/A} = a_B - a_A = 3 - (2.25) = 0.75 \text{ m/s}^2$$

Length of cable between points E and C:

$$L' = (s_B - s_A) + (s_C - s_A) + \text{constants}$$

$$0 = v_B - 2v_A + v_C \Rightarrow v_C = 2v_A - v_B$$

$$\text{or } v_C = 2(1.5) - 2 = 1 \text{ m/s}$$

(All answers are quantities directed to right)

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$$\dot{x} = u \cos \theta = 200 \cos 60^\circ = 100 \text{ ft/sec}$$

$$\dot{y} = u \sin \theta - gt = 200 \sin 60^\circ - 32.2t = 173.2 - 32.2t$$

$$\text{At } t_1: \dot{x} = \dot{y}: 100 = 173.2 - 32.2t_1, \quad t_1 = 2.27 \text{ sec}$$

$$\text{At } t_2: \dot{x} = -\dot{y}: 100 = -173.2 + 32.2t_2, \quad t_2 = 5.48 \text{ sec}$$

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From A to B,  $a = 0$ From B to C,  $a = a_n = v^2/\rho$ 

$$a_n = \frac{(90 + 44/30)^2}{1000} = 12.42 \text{ ft/sec}^2$$

12.42 ft/sec<sup>2</sup>

Abrupt acceleration would cause abrupt forces which would be uncomfortable for passengers. A transition section to change curvature gradually over an interval of track would be required.

2/233

$$r = r_0 + b \sin \frac{2\pi t}{\tau}, \quad \dot{r} = \frac{2\pi b}{\tau} \cos \frac{2\pi t}{\tau}$$

$$\ddot{r} = -\frac{4\pi^2 b}{\tau^2} \sin \frac{2\pi t}{\tau}$$

$$a_r = \ddot{r} - r\dot{\theta}^2 = -\frac{4\pi^2 b}{\tau^2} \sin \frac{2\pi t}{\tau} - r\dot{\theta}^2 = 0$$

$$\Rightarrow r = r_0 \frac{1}{1 + \left(\frac{4b}{r_0}\right)^2}$$

2/234

$$\dot{x} = 20 \text{ mm/s}, \quad \ddot{x} = 0$$

$$y = x/80, \quad \dot{y} = \dot{x}/80, \quad \ddot{y} = (\dot{x}^2 + x\ddot{x})/80$$

$$v = \sqrt{\dot{x}^2 + \dot{y}^2} = \sqrt{\dot{x}^2 + (\dot{x}/80)^2} = \dot{x} \sqrt{1 + (1/80)^2}$$

$$\text{for } x = 60 \text{ mm}$$

$$v = 20 \sqrt{1 + (60/80)^2} = 25 \text{ mm/s}$$

$$a = \ddot{y} = \dot{x}^2/80, \quad \text{since } \ddot{x} = 0, \quad a = 100/80 = 1.25 \text{ mm/s}^2$$

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$$y = 40x, \quad v^2 = v_x^2 + v_y^2; \quad 0 = a_x^2 - 2y/40^2 \quad \text{At } A$$

$$a_y = \sqrt{2(40/40^2)} = 15.34 \text{ m/s}^2$$

$$1 = v_x^2 + \frac{1}{2} a_y^2, \quad -10 = 15.34x - \frac{3}{2} a_y^2$$

$$x^2 - 1.128x - 0.116 = 0$$

$$x = 400 \text{ mm} \quad (x = -1.94 \text{ mm})$$

30 m

$$a = \sqrt{(15.34)^2 + (15.34)^2} = 12.74 \text{ m/s}^2$$

$$a_1 = 100^\circ \left( \frac{15.34}{15.34} \right) = 59.1^\circ; \quad a_2 = 100^\circ \left( \frac{15.34}{15.34} \right) = 59.1^\circ$$

$$\theta = a_1, a_2 = 59.1^\circ + 59.1^\circ = 118.2^\circ$$

# Meriam Dynamics Solution

**N. Jeremy Kasdin, Derek A. Paley**



## **Meriam Dynamics Soulation:**

*Engineering Applications of Dynamics* Dean C. Karnopp, Donald L. Margolis, 2007-12-14 A GROUNDBREAKING TEXT THAT BRIDGES THE GAP BETWEEN THEORETICAL DYNAMICS AND INDUSTRY APPLICATIONS Designed to address the perceived failure of introductory dynamics courses to produce students capable of applying dynamic principles successfully both in subsequent courses and in practice *Engineering Applications of Dynamics* adopts a much needed practical approach designed to make the subject not only more relevant but more interesting as well Written by a highly respected team of authors the book is the first of its kind to tie dynamics theory directly to real world situations By touching on complex concepts only to the extent of illustrating their value in real world applications the authors provide students with a deeper understanding of dynamics in the engineering of mechanical systems Topics of interest include The formulation of equations in forms suitable for computer simulation Simulation examples of real engineering systems Applications to vehicle dynamics Lagrange's equations as an alternative formulation procedure Vibrations of lumped and distributed systems Three dimensional motion of rigid bodies with emphasis on gyroscopic effects Transfer functions for linearized dynamic systems Active control of dynamic systems A Solutions Manual with detailed solutions for all problems in this book is available at the Web site [www.wiley.com/college/karnopp](http://www.wiley.com/college/karnopp)

**Engineering Mechanics** James L. Meriam, L. G. Kraige, J. N. Bolton, 2020-07-28 *Engineering Mechanics* Dynamics provides a solid foundation of mechanics principles and helps students develop their problem solving skills with an extensive variety of engaging problems related to engineering design More than 50% of the homework problems are new and there are also a number of new sample problems To help students build necessary visualization and problem solving skills this product strongly emphasizes drawing free body diagrams the most important skill needed to solve mechanics problems

*Dynamics - Formulas and Problems* Dietmar Gross, Wolfgang Ehlers, Peter Wriggers, Jörg Schröder, Ralf Müller, 2016-10-05 This book contains the most important formulas and more than 190 completely solved problems from Kinetics and Hydrodynamics It provides engineering students material to improve their skills and helps to gain experience in solving engineering problems Particular emphasis is placed on finding the solution path and formulating the basic equations Topics include Kinematics of a Point Kinetics of a Point Mass Dynamics of a System of Point Masses Kinematics of Rigid Bodies Kinetics of Rigid Bodies Impact Vibrations Non Inertial Reference Frames Hydrodynamics

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**Engineering Mechanics: Dynamics** James L. Meriam, 2002 **Dynamics** James L. Meriam, 1959 *Engineering Mechanics, Dynamics, Study Guide* J. L. Meriam, L. G. Kraige, 1997-03-21 This concise and authoritative book emphasizes basic principles and problem formulation It

illustrates both the cohesiveness of the relatively few fundamental ideas in this area and the great variety of problems these ideas solve All of the problems address principles and procedures inherent in the design and analysis of engineering structures and mechanical systems with many of the problems referring explicitly to design considerations

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*Essentials of Dynamics and Vibrations* John Billingsley, 2025-03-02 This updated second edition brings the complex mathematics of three dimensional dynamics to life with real time simulations making the equations easier to grasp Covering core topics in mechanical engineering such as kinematics dynamics vibration analysis gyroscopes gears and Euler s equations the book offers a clear and engaging approach for students professionals and enthusiasts alike With a focus on practical applications it explains everything from the laws of motion to motors and mechanisms providing a comprehensive understanding of mechanical systems New to this edition is a chapter on Power Energy and Perpetual Motion which reveals intriguing comparisons such as the energy needed to lift water versus the heat required to warm it The final chapter Rocket Science has been expanded to debunk myths about black holes and gravity humorously addressing science fiction misconceptions while proposing exciting space projects

*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. Franz Selig Zentralblatt MATH Vol 1201 2011      **Applied Mechanics Reviews** ,1972

*Computational Dynamics* Ahmed A. Shabana, 2001-06-11 A practical approach to the computational methods used to solve real world dynamics problems. Computational dynamics has grown rapidly in recent years with the advent of high speed digital computers and the need to develop simulation and analysis computational capabilities for mechanical and aerospace systems that consist of interconnected bodies. *Computational Dynamics Second Edition* offers a full introduction to the concepts, definitions and techniques used in multibody dynamics and presents essential topics concerning kinematics and dynamics of motion in two and three dimensions. Skillfully organized into eight chapters that mirror the standard learning sequence of computational dynamics courses, this Second Edition begins with a discussion of classical techniques that review some of the fundamental concepts and formulations in the general field of dynamics. Next it builds on these concepts in order to demonstrate the use of the methods as the foundation for the study of computational dynamics. Finally the book presents different computational methodologies used in the computer aided analysis of mechanical and aerospace systems. Each chapter features simple examples that show the main ideas and procedures as well as straightforward problem sets that facilitate learning and help readers build problem solving skills. Clearly written and ready to apply. *Computational Dynamics Second Edition* is a valuable reference for both aspiring and practicing mechanical and aerospace engineers.      *Time* Robert F. Schuyler, 2009-09      **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.      **The Engineering Dynamics Course Companion, Part 1** Edward Diehl, 2022-05-31 *Engineering Dynamics Course Companion Part 1: Particles 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 Particle Dynamics a separate book Part 2 is available that covers Rigid Body Dynamics.      *Catalogue of Title-entries of Books and Other Articles Entered in the Office of the Librarian of Congress, at Washington, Under the Copyright Law ... Wherein the Copyright Has Been Completed by the Deposit of Two Copies in the Office* Library of Congress. Copyright Office, 1978      Applied Dynamics

Francis C. Moon, 2008-10-20 For almost a decade now this textbook had been at the forefront in using modern analytical and computational codes and in addressing novel developments Already used by numerous institutions for their courses this second edition has been substantially revised with new sections on biomechanics and micro and nanotechnology There is also more coverage of robotics multibody simulations and celestial mechanics Numerous examples have been added and problems partly using MATLAB have been included Free solutions manual available for lecturers at [www.wiley-vch.de/supplements](http://www.wiley-vch.de/supplements)

VFLOW2D Walter P. Wolfe, James H. Strickland, Gregory F. Homicz, Albert A. Gossler, 2000 A numerical flow model is developed to simulate two dimensional fluid flow past immersed elastically supported tube arrays This work is motivated by the objective of predicting forces and motion associated with both deep water drilling and production risers in the oil industry This work has other engineering applications including simulation of flow past tubular heat exchangers or submarine towed sensor arrays and the flow about parachute ribbons In the present work a vortex method is used for solving the unsteady flow field This method demonstrates inherent advantages over more conventional grid based computational fluid dynamics The vortex method is non iterative does not require artificial viscosity for stability displays minimal numerical diffusion can easily treat moving boundaries and allows a greatly reduced computational domain since vorticity occupies only a small fraction of the fluid volume A gridless approach is used in the flow sufficiently distant from surfaces A Lagrangian remap scheme is used near surfaces to calculate diffusion and convection of vorticity A fast multipole technique is utilized for efficient calculation of velocity from the vorticity field The ability of the method to correctly predict lift and drag forces on simple stationary geometries over a broad range of Reynolds numbers is presented

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