

## 16.5



Given:  $\mu_s = 0.80$   
Find: (a) Assume  
(a) Four-wheel drive  
(b) Rear-wheel drive  
(c) Front-wheel drive

(a) FOUR-WHEEL DRIVE:



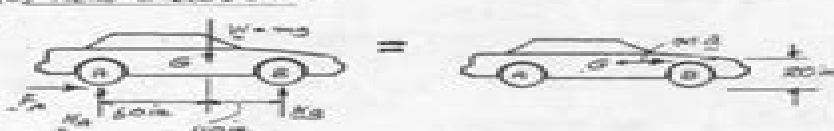
$$+ \uparrow \Sigma F_y = 0: N_A + N_B - W = 0 \quad N_A + N_B = W = mg$$

$$\text{Thus: } F_A + F_B = \mu_s N_A + \mu_s N_B = \mu_s (N_A + N_B) = \mu_s W = 0.80 mg$$

$$\pm \Sigma F_x = \Sigma (F_x)_{\text{eff}}: F_A + F_B = ma \quad 0.80 mg = ma$$

$$a = 0.80g = 0.80(32.2 \text{ ft/s}^2) \quad a = 25.8 \text{ ft/s}^2 \rightarrow$$

(b) REAR-WHEEL DRIVE:



$$+ \uparrow \Sigma M_G = \Sigma (M_G)_{\text{eff}}: (50 \text{ in})W - (100 \text{ in})N_B = -(20 \text{ in})ma$$

$$N_B = 0.4W + 0.2ma$$

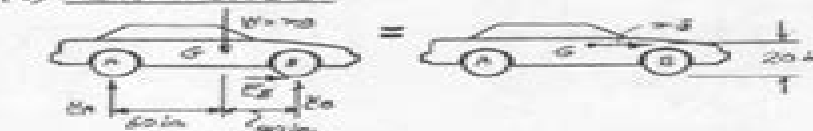
$$\text{Thus: } F_B = \mu_s N_B = 0.80(0.4W + 0.2ma) = 0.32mg + 0.16ma$$

$$\pm \Sigma F_x = \Sigma (F_x)_{\text{eff}}: F_B = ma \quad 0.32mg + 0.16ma = ma$$

$$0.32g = 0.84a$$

$$a = \frac{0.32}{0.84}(32.2 \text{ ft/s}^2) \quad a = 12.27 \text{ ft/s}^2 \rightarrow$$

(c) FRONT-WHEEL DRIVE:



$$+ \uparrow \Sigma M_B = \Sigma (M_B)_{\text{eff}}: (100 \text{ in})N_A - (50 \text{ in})W = -(20 \text{ in})ma$$

$$N_A = 0.5W - 0.2ma$$

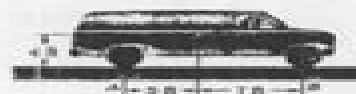
$$\text{Thus: } F_A = \mu_s N_A = 0.80(0.5W - 0.2ma) = 0.40mg - 0.16ma$$

$$\pm \Sigma F_x = \Sigma (F_x)_{\text{eff}}: F_A = ma \quad 0.40mg - 0.16ma = ma$$

$$0.40g = 1.16a$$

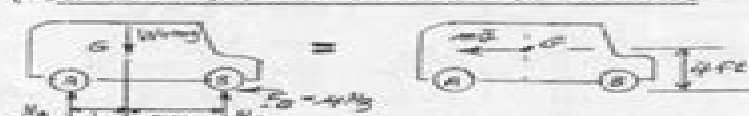
$$a = \frac{0.40}{1.16}(32.2 \text{ ft/s}^2) \quad a = 13.32 \text{ ft/s}^2 \rightarrow$$

## 16.6



Given:  $v_0 = 30 \text{ ft/s}$   
From Sample Problem 16.1  
 $\mu_s = 0.677$   
Find: Distance required to stop if  
(a) Rear-wheel brake fail to operate  
(b) Front-wheel brake fail to operate

(a) IF REAR-WHEEL BRAKES FAIL TO OPERATE



$$+ \uparrow \Sigma M_A = \Sigma (M_A)_{\text{eff}}: N_B(50 \text{ in}) - W(50 \text{ in}) = ma(4 \text{ ft})$$

$$N_B = \frac{5}{12}W + \frac{1}{3}ma$$

$$\pm \Sigma F_x = \Sigma (F_x)_{\text{eff}}: F_A = ma \quad \mu_s N_B = \frac{W}{3}a$$

$$0.677\left(\frac{5}{12}W + \frac{1}{3}ma\right) = \frac{W}{3}a$$

$$a = \frac{0.677\left(\frac{5}{12}\right)(32.2 \text{ ft/s}^2)}{1 - 0.223} \quad a = 12.27 \text{ ft/s}^2 \rightarrow$$

$$\text{UNIFORMLY ACCELERATED MOTION} \quad v^2 = v_0^2 + 2ax \quad 0 = (30 \text{ ft/s})^2 - 2(12.27 \text{ ft/s}^2)x$$

$$x = 36.9 \text{ ft}$$

(b) IF FRONT-WHEEL BRAKE FAIL TO OPERATE



$$+ \uparrow \Sigma M_B = \Sigma (M_B)_{\text{eff}}: W(50 \text{ in}) - N_A(50 \text{ in}) = ma(4 \text{ ft})$$

$$N_A = \frac{3}{12}W - \frac{1}{3}ma$$

$$\pm \Sigma F_x = \Sigma (F_x)_{\text{eff}}: F_B = ma \quad \mu_s N_A = \frac{W}{3}a$$

$$0.677\left(\frac{3}{12}W - \frac{1}{3}ma\right) = \frac{W}{3}a$$

$$a = \frac{0.677\left(\frac{3}{12}\right)(32.2 \text{ ft/s}^2)}{1 + 0.223} \quad a = 10.648 \text{ ft/s}^2 \rightarrow$$

$$\text{UNIFORMLY ACCELERATED MOTION} \quad v^2 = v_0^2 + 2ax \quad 0 = (30 \text{ ft/s})^2 - 2(10.648 \text{ ft/s}^2)x$$

$$x = 42.3 \text{ ft}$$

# Vector Mechanics For Engineers Dynamics 9th Chapter 16 Solutions

**E. W. Nelson, Charles L. Best, W. G.  
McLean, Merle C. Potter**



## **Vector Mechanics For Engineers Dynamics 9th Chapter 16 Solutions:**

**Vector Mechanics for Engineers** Ferdinand Pierre Beer, Elwood Russell Johnston, 1962      **700 Solved Problems In Vector Mechanics for Engineers: Dynamics** Joseph F. Shelley, 1991-04 Suitable for 2nd year college and university engineering students this book provides them with a source of problems with solutions in vector mechanics that covers various aspects of the basic course It offers the comprehensive solved problem reference in the subject It also provides the student with the problem solving drill      *Applied Mechanics With Solidworks* Godfrey C Onwubolu, 2014-12-23 Applied Mechanics with SolidWorks aims to assist students designers engineers and professionals interested in using SolidWorks to solve practical engineering mechanics problems It utilizes CAD software SolidWorks based to teach applied mechanics SolidWorks here is presented as an alternative tool for solving statics and dynamics problems in applied mechanics courses Readers can follow the steps described in each chapter to model parts and analyze them A significant number of pictorial descriptions have been included to guide users through each stage making it easy for readers to work through the text on their own Instructional support videos showing the motions and results of the dynamical systems being analyzed and SolidWorks files for all problems solved are available to lecturers and instructors for free download      **Engineering Mechanics, Statics and Dynamics** Joseph F. Shelley, 1980      **Smart Modelling for Engineering Systems** Margarita N. Favorskaya, Alena V. Favorskaya, Igor B. Petrov, Lakhmi C. Jain, 2021-01-30 This book is a collection of research papers selected for presentation at the International Conference on Smart Computational Methods in Continuum Mechanics 2021 organized by Moscow Institute of Physics and Technology and the Institute for Computer Aided Design of Russian Academy of Sciences The work is presented in two volumes The primary objective of the book is to report the state of the art on smart computational paradigms in continuum mechanics and explore the use of artificial intelligence paradigms such as neural nets and machine learning for improving the performance of the designed engineering systems The book includes up to date smart computational methods which are used to solve problems in continuum mechanics engineering seismic prospecting non destructive testing and so on The main features of the book are the research papers on the application of novel smart methods including neural nets and machine learning computational algorithms smart software systems and high performance computer systems for solving complex engineering problems The case studies pertaining to the real world applications in the above fields are included The book presents a collection of best research papers in English language from some of the world leaders in the field of smart system modelling and design of engineering systems      *Engineering Mechanics* R. C. Hibbeler, 1995      *Engineering Mechanics--statics and Dynamics* R. C. Hibbeler, 1995 This best selling book offers a concise and thorough presentation of engineering mechanics theory and application The material is reinforced with numerous examples to illustrate principles and imaginative well illustrated problems of varying degrees of difficulty The book is committed to developing its users problem solving skills and includes pedagogical features that have made Hibbeler

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**International Symposium on Nonlinear Differential Equations and Nonlinear Mechanics** Joseph

Lasalle,2012-12-02 Nonlinear Differential Equations and Nonlinear Mechanics provides information pertinent to nonlinear differential equations nonlinear mechanics control theory and other related topics This book discusses the properties of solutions of equations in standard form in the infinite time interval Organized into 49 chapters this book starts with an overview of the characteristic types of differential equation systems with small parameters This text then explains the structurally stable fields on a differentiable two manifold are the ones that exhibit the simplest features Other chapters explore the canonic system of hyperbolic partial differential equations with fixed characteristics This book discusses as well the monofrequent oscillations that are predominantly near one or the other of the linear modes of motion The final chapter deals with the existence and asymptotic character of solutions of the nonlinear boundary value problem This book is a valuable resource for pure and applied mathematicians Aircraft engineers will also find this book useful Principles of Engineering Mechanics Millard F. Beatty,2010-06-01 Separation of the elements of classical mechanics into kinematics and dynamics is an uncommon tutorial approach but the author uses it to advantage in this two volume set Students gain a mastery of kinematics first a solid foundation for the later study of the free body formulation of the dynamics problem A key objective of these volumes which present a vector treatment of the principles of mechanics is to help the student gain confidence in transforming problems into appropriate mathematical language that may be manipulated to give useful physical conclusions or specific numerical results In the first volume the elements of vector calculus and the matrix algebra are reviewed in appendices Unusual mathematical topics such as singularity functions and some elements of tensor analysis are introduced within the text A logical and systematic building of well known kinematic concepts theorems and formulas illustrated by examples and problems is presented offering insights into both fundamentals and applications Problems amplify the material and pave the way for advanced study of topics in mechanical design analysis advanced kinematics of mechanisms and analytical dynamics mechanical vibrations and controls and continuum mechanics of solids and fluids Volume I of Principles of Engineering Mechanics provides the basis for a stimulating and rewarding one term course for advanced undergraduate and first year graduate students specializing in mechanics engineering science engineering physics

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**The Finite Element Method in Engineering** Singiresu S. Rao, 2010-12-20 The Finite Element Method in Engineering Fifth Edition provides a complete introduction to finite element methods with applications to solid mechanics fluid mechanics and heat transfer Written by bestselling author S S Rao this book provides students with a thorough grounding of the mathematical principles for setting up finite element solutions in civil mechanical and aerospace engineering applications The new edition of this textbook includes examples using modern computer tools such as MatLab Ansys Nastran and Abaqus This book discusses a wide range of topics including discretization of the domain interpolation models higher order and isoparametric elements derivation of element matrices and vectors assembly of element matrices and vectors and derivation of system equations numerical solution of finite element equations basic equations of fluid mechanics inviscid and irrotational flows solution of quasi harmonic equations and solutions of Helmholtz and Reynolds equations New to this edition are examples and applications in Matlab Ansys and Abaqus structured problem solving approach in all worked examples and new discussions throughout including the direct method of deriving finite element equations use of strong and weak form formulations complete treatment of dynamic analysis and detailed analysis of heat transfer problems All figures are revised and redrawn for clarity This book will benefit professional engineers practicing engineers learning finite element methods and students in mechanical structural civil and aerospace engineering Examples and applications in Matlab Ansys and Abaqus Structured problem solving approach in all worked examples New discussions throughout including the direct method of deriving finite element equations use of strong and weak form formulations complete treatment of dynamic analysis and detailed analysis of heat transfer problems More examples and exercises All figures revised and redrawn for clarity *Engineering Mechanics: Dynamics* Archie Higdon, 1979

**Seismic Wave Propagation in Non-Homogeneous Elastic Media by Boundary Elements** George D. Manolis, Petia S. Dineva, Tsviatko V. Rangelov, Frank Wuttke, 2016-09-23 This book focuses on the mathematical potential and computational efficiency of the Boundary Element Method BEM for modeling seismic wave propagation in either continuous or discrete inhomogeneous elastic viscoelastic isotropic anisotropic media containing multiple cavities cracks inclusions and surface topography BEM models may take into account the entire seismic wave path from the seismic source through the geological deposits all the way up to the local site under consideration The general presentation of the theoretical basis of elastodynamics for inhomogeneous and heterogeneous continua in the first part is followed by the analytical derivation of fundamental solutions and Green's functions for the governing field equations by the usage of Fourier and Radon transforms The numerical implementation of the BEM is for antiplane in the second part as well as for plane strain boundary value problems in the third part Verification studies and parametric analysis appear throughout the book as do both recent references and seminal ones from the past Since the

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*Computational Methods In Engineering: Advances & Applications - Proceedings Of The International Conference (In 2 Volumes)* Khin-yong Lam,A A O Tay,1992-10-29

**Classical Mechanics** Jan Awrejcewicz,2012-07-26 This is the first volume of three devoted to Mechanics This book contains classical mechanics problems including kinematics and statics It is recommended as a supplementary textbook for undergraduate and graduate students from mechanical and civil engineering as well as for physical scientists and engineers It contains a basic introduction to classical mechanics including fundamental principles statics and the geometry of masses as well as thorough discussion on kinematics

Computational Fluid Dynamics: Principles and Applications Jiri Blazek,2001-05-11

Computational Fluid Dynamics Principles and Applications **Electromagnetic Applications** Carlos A. Brebbia,2012-12-06

General Applications of BEM to electromagnetic problems are comparatively new although the method is ideally suited to solve these problems which usually involve unbounded domains The present volume comprises contributions by eminent researchers working on applications of boundary elements in electromagnetic problems The volume deals with the solutions of Maxwell s equation for three dimensional as well as two dimensional cases It also discusses combination of BEM with FEM particularly in the case of saturated media Some chapters specifically deal with the design of electromagnetic devices The book is essential reading to those engineers and scientists who are interested in the state of the art for electrical and electromagnetic application of boundary elements It is also an important reference for those engineers who are working on the design of electromagnetic components many of which can be advantageously carried out using BEM

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**Technical Abstract Bulletin** Defense Documentation Center (U.S.),1963-05

Boundary Element Methods for Soil-Structure Interaction W.S. Hall,G. Oliveto,2007-05-08 W S HALL School of Computing and Mathematics University of Teesside Middlesbrough TS1 3BA UK G OLIVETO Division of Structural Engineering Department of Civil and Environmental Engineering University of Catania Viale A Doria 6 95125 Catania Italy Soil Structure Interaction is a challenging

multidisciplinary subject which covers several areas of Civil Engineering Virtually every construction is connected to the ground and the interaction between the artefact and the foundation medium may affect considerably both the superstructure and the foundation soil The Soil Structure Interaction problem has become an important feature of Structural Engineering with the advent of massive constructions on soft soils such as nuclear power plants concrete and earth dams Buildings bridges tunnels and underground structures may also require particular attention to be given to the problems of Soil Structure Interaction Dynamic Soil Structure Interaction is prominent in Earthquake Engineering problems The complexity of the problem due also to its multidisciplinary nature and to the fact of having to consider bounded and unbounded media of different mechanical characteristics requires a numerical treatment for any application of engineering significance The Boundary Element Method appears to be well suited to solve problems of Soil Structure Interaction through its ability to discretize only the boundaries of complex and often unbounded geometries Non linear problems which often arise in Soil Structure Interaction may also be treated advantageously by a judicious mix of Boundary and Finite Element discretizations

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