



PROBLEM 4.1

The boom on a 4300-kg truck is used to unload a pallet of shingles of mass 1600 kg. Determine the reaction at each of the two (a) rear wheels B, (b) front wheels C.

SOLUTION



$$W_A = m_A g = (1600 \text{ kg})(9.81 \text{ m/s}^2) \\ = 15696 \text{ N}$$

or

$$W_A = 15.696 \text{ kN}$$

$$W_G = m_G g = (4300 \text{ kg})(9.81 \text{ m/s}^2) \\ = 42183 \text{ N}$$

or

$$W_G = 42.183 \text{ kN}$$

(a) From f.b.d. of truck with boom

$$\begin{aligned} \rightarrow \Sigma M_C = 0: & (15.696 \text{ kN})[(0.5 + 0.4 + 6 \cos 15^\circ) \text{ m}] - 2F_B[(0.5 + 0.4 + 4.3) \text{ m}] \\ & + (42.183 \text{ kN})(0.5 \text{ m}) = 0 \end{aligned}$$

$$\therefore 2F_B = \frac{126.185}{5.2} = 24.266 \text{ kN}$$

$$\text{or } F_B = 12.13 \text{ kN} \quad \nwarrow$$

(b) From f.b.d. of truck with boom

$$\begin{aligned} \rightarrow \Sigma M_B = 0: & (15.696 \text{ kN})[(6 \cos 15^\circ - 4.3) \text{ m}] - (42.183 \text{ kN})[(4.3 + 0.4) \text{ m}] \\ & + 2F_C[(4.3 + 0.9) \text{ m}] = 0 \end{aligned}$$

$$\therefore 2F_C = \frac{174.786}{3.2} = 54.613 \text{ kN}$$

$$\text{or } F_C = 27.31 \text{ kN} \quad \nwarrow$$

Check:

$$\rightarrow \Sigma F_y = 0: (33.613 - 42.183 + 24.266 - 15.696) \text{ kN} = 0?$$

$$(37.879 - 57.879) \text{ kN} = 0 \text{ ok}$$

Statics Solutions Chapter 4

Todd Ruskell

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Statics Solutions Chapter 4:

Statics and Rotational Dynamics of Composite Beams Mehrdaad Ghorashi, 2016-02-06 This book presents a comprehensive study of the nonlinear statics and dynamics of composite beams and consists of solutions with and without active elements embedded in the beams The static solution provides the initial conditions for the dynamic analysis The dynamic problems considered include the analyses of clamped hingeless and articulated hinged accelerating rotating beams Two independent numerical solutions for the steady state and the transient responses are presented The author illustrates that the transient solution of the nonlinear formulation of accelerating rotating beam converges to the steady state solution obtained by the shooting method Other key areas considered include calculation of the effect of perturbing the steady state solution coupled nonlinear flap lag dynamics of a rotating articulated beam with hinge offset and aerodynamic damping and static and dynamic responses of nonlinear composite beams with embedded anisotropic piezo composite actuators The book is intended as a thorough study of nonlinear elasticity of slender beams and is targeted to researchers graduate students and practicing engineers in the fields of structural dynamics aerospace structures and mechanical engineering Aeroelasticity AV Balakrishnan, 2012-07-12 The author's approach is one of continuum models of the aerodynamic flow interacting with a flexible structure whose behavior is governed by partial differential equations Both linear and nonlinear models are considered although much of the book is concerned with the former while keeping the latter clearly in view A complete chapter is also devoted to nonlinear theory The author has provided new insights into the classical inviscid aerodynamics and raises novel and interesting questions on fundamental issues that have too often been neglected or forgotten in the development of the early history of the subject The author contrasts his approach with discrete models for the unsteady aerodynamic flow and the finite element model for the structure Much of the aeroelasticity has been developed with applications formerly in mind because of its enormous consequences for the safety of aircraft Aeroelastic instabilities such as divergence and flutter and aeroelastic responses to gusts can pose a significant hazard to the aircraft and impact its performance Yet it is now recognized that there are many other physical phenomena that have similar characteristics ranging from flows around flexible tall buildings and long span bridges alternate energy sources such as electric power generation by smart structures to flows internal to the human body From the foreword For the theorist and applied mathematician who wishes an introduction to this fascinating subject as well as for the experienced aeroelastician who is open to new challenges and a fresh viewpoint this book and its author have much to offer the reader Earl Dowell Duke University USA **Student Solutions Manual for Tipler and Mosca's Physics for Scientists and Engineers, Sixth Edition: Chapters 1-20** Todd Ruskell, 2008 **Gauge Fields: Classification And Equations Of Motion** Moshe Carmeli, Khadra Huleihil, E Leibowitz, 1989-02-01 This volume reviews the most recent progress on new exact solutions of the Yang Mills SU 2 gauge field equations In order to have a better understanding of the physical meaning of the Yang Mills

fields the motion of a particle in these fields first in general and then in particular fields were discussed *Accelerator Physics: Example Problems With Solutions* Mario Conte, William W Mackay, 2012-03-23 This manual provides solutions to the problems given in the second edition of the textbook entitled *An Introduction to the Physics of Particle Accelerators* Simple to solve problems play a useful role as a first check of the student's level of knowledge whereas difficult problems will test the student's capacity of finding the bearing of the problems in an interdisciplinary environment The solutions to several problems will require strong engagement of the student not only in accelerator physics but also in more general physical subjects such as the profound approach to classical mechanics discussed in Chapter 3 and the subtleties of spin dynamics

Chapter 13 **Affine Arithmetic Based Solution of Uncertain Static and Dynamic Problems** Snehashish

Chakraverty, Saudamini Rout, 2022-05-31 Uncertainty is an inseparable component of almost every measurement and occurrence when dealing with real world problems Finding solutions to real life problems in an uncertain environment is a difficult and challenging task As such this book addresses the solution of uncertain static and dynamic problems based on affine arithmetic approaches Affine arithmetic is one of the recent developments designed to handle such uncertainties in a different manner which may be useful for overcoming the dependency problem and may compute better enclosures of the solutions Further uncertain static and dynamic problems turn into interval and or fuzzy linear nonlinear systems of equations and eigenvalue problems respectively Accordingly this book includes newly developed efficient methods to handle the said problems based on the affine and interval fuzzy approach Various illustrative examples concerning static and dynamic problems of structures have been investigated in order to show the reliability and efficacy of the developed approaches

On Pseudoconformal Blow-Up Solutions to the Self-Dual Chern-Simons-Schrödinger Equation: Existence, Uniqueness, and Instability Kihyun Kim, Soonsik Kwon, 2023-04-07 View the abstract *Tidal Circulation and Flushing*

Characteristics of the Nauset Marsh System David G. Aubrey, 1997 Various interested bodies i.e National Park Service Cape Cod Commission and the Town of Orleans charged with management of the Nauset Marsh system on Cape Cod Massachusetts commissioned a study of the estuarine circulation within the Nauset system Recent significant morphological changes in the system have changed mixing processes and residence times for the embayment This study specifically addressed the differing water circulation and residence times arising from a migrating single inlet dominant condition and dual inlet 1992 1996 situations These residence times are to be used by the Cape Cod Commission to identify nitrogen sensitive sub embayments based on various assumptions of build out and nutrient loading The Nauset Marsh system has experienced considerable development in recent years proper management of this resource area requires knowledge of the consequences of such development This study provides a defensible basis for evaluating nutrient loading and potential eutrophication arising from development in the watershed around Nauset embayment However since morphological changes occur on a rapid basis in this area the issue of residence time should be re-examined periodically For instance rapid onshore

migration of the southern barrier beach is threatening closure of the south channel a condition which could adversely affect water quality in Nauset Harbor in the near future A process should be established to examine the sensitivity of residence times for rapidly changing morphology

Algebraic Equations of Linear Elasticity Lester W. Schmerr Jr., 2024-09-09 This book describes a second generation force based method emerging from a general formulation where the partial differential equations of elasticity are replaced by equivalent algebraic equations These algebraic equations of linear elasticity can be used to solve statically indeterminate problems in reduced forms that define either the new second generation force based approach or a new displacement based approach The new force based method can serve as the basis for teaching students at many technical levels how to solve equilibrium problems directly for the forces present In elasticity courses the derivation and use of the algebraic equations of linear elasticity can show how the difficulties of dealing with partial differential equations may be avoided by transforming those equations into algebraic equations with work energy concepts In a finite element course a force based finite element method can be described along with the traditional displacement based approach to demonstrate how the two methods provide alternative ways for solving complex structural problems Serving as a resource for including second generation force based methods in solid mechanics courses of an engineering curriculum and as a robust learning resource the book is ideal for instructors and for students practicing engineers and researchers

Stress Analysis by Boundary Element Methods J. Balaš, J. Sládek, V. Sládek, 2013-10-22 The boundary element method is an extremely versatile and powerful tool of computational mechanics which has already become a popular alternative to the well established finite element method This book presents a comprehensive and up to date treatise on the boundary element method BEM in its applications to various fields of continuum mechanics such as elastostatics elastodynamics thermoelasticity micropolar elasticity elastoplasticity viscoelasticity theory of plates and stress analysis by hybrid methods The fundamental solution of governing differential equations integral representations of the displacement and temperature fields regularized integral representations of the stress field and heat flux boundary integral equations and boundary integro differential equations are derived Besides the mathematical foundations of the boundary integral method the book deals with practical applications of this method Most of the applications concentrate mainly on the computational problems of fracture mechanics The method has been found to be very efficient in stress intensity factor computations Also included are developments made by the authors in the boundary integral formulation of thermoelasticity micropolar elasticity viscoelasticity plate theory hybrid method in elasticity and solution of crack problems The solution of boundary value problems of thermoelasticity and micropolar thermoelasticity is formulated for the first time as the solution of pure boundary problems A new unified formulation of general crack problems is presented by integro differential equations

[Kinks and Domain Walls](#) Tanmay Vachaspati, 2023-02-09 This 2006 text reissued as OA introduces kinks and domain walls and their principal classical and quantum properties

The Intelligible Universe Julio Antonio Gonzalo, 2008 This interesting book

reviews WMAP's main results 2003 and discusses in detail how the accurate qualitative results for the age of the universe and the Hubble constant were anticipated in an article published five years before in *Acta Cosmologica Krakow*. In the final chapter on Cosmic Numbers it is shown that as a result of the coincidence at decoupling time between atom formation and matter radiation equality a reasonable cosmic justification for the mass ratio of protons and electrons is obtained.

Intelligible Universe, The: An Overview Of The Last Thirteen Billion Years (2nd Edition) Julio A Gonzalo, 2008-07-04 This interesting book reviews WMAP's main results 2003 and discusses in detail how the accurate qualitative results for the age of the universe and the Hubble constant were anticipated in an article published five years before in *Acta Cosmologica Krakow*. In the final chapter on Cosmic Numbers it is shown that as a result of the coincidence at decoupling time between atom formation and matter radiation equality a reasonable cosmic justification for the mass ratio of protons and electrons is obtained.

Fundamentals of Ecotoxicology, Second Edition Michael C. Newman, Michael A. Unger, 2002-12-26 Completely revised and updated *Fundamentals of Ecotoxicology Second Edition* presents a treatment of ecotoxicology ranging from molecular to global perspectives. The authors focus first on lower levels of organization and then extend their discussion to include landscape, regional, and biospheric topics, imparting a perspective as broad as the problems facing practicing professionals. See what's new in this edition. A comprehensive chapter on the nature, transport, and fate of major classes of contaminants in terrestrial, freshwater, and marine systems. Sidebars containing vignettes by leaders in the field let you benefit from the experience of diverse practitioners in the field. An appendix covering European environmental regulations. The authors detail key contaminants of concern, explore their fate and cycling in the biosphere, and discuss bioaccumulation and the effects of contaminants at increasing levels of ecological organization. They cover regulatory aspects of the field in separate chapters that address the technical issues of risk assessment and discuss key U.S. and European legislation in the appendices. Complete with study questions, a detailed glossary, and vignettes by various experts exploring special topics in ecotoxicology. *Fundamentals of Ecotoxicology Second Edition* is an ideal introductory textbook for both undergraduate and graduate level courses as well as a valuable reference for professionals.

Scattering in Polymeric and Colloidal Systems Wyn Brown, Kell Mortensen, 2000-08-08 The application of selected scattering methods in particular light and neutron scattering to complex polymeric and colloidal systems is discussed. Progress in this area of condensed matter is charted, and the book provides insight into the theory and practice of the techniques applied to a number of diverse problems.

Electromagnetic Analysis Using Transmission Line Variables Maurice Weiner, 2010 Summary Describes transmission line matrix techniques for solving electromagnetic problems. The approach visualizes the propagation medium as divided into identical cells with the electromagnetic energy confined to transmission lines which separate the cells. The author, who works for United Silicon Carbide, develops the electromagnetic scattering equations for one, two, and three dimensions, corrects the transmission line matrix for any wave properties, and incorporates boundary conditions and dispersion into the method.

Finally he outlines a computer program for finding the transient solution of a 2D semiconductor switch whose conductivity is induced by a light source

Disc Brake Squeal Frank Chen, Chin An Tan, Ronald L Quaglia, 2005-12-13 Chapters written by professional and academic experts in the field cover analytical modeling and analysis CEA modeling and numerical methods techniques for dynamometer and road test evaluation critical parameters that contribute to brake squeal robust design processes to reduce prevent brake squeal via up front design and more

Polymer Dilute Solution Characterization Marie Kayser Potts, 1993

Applications of Laser Light Scattering in IBM SAN and SVC Stretched Cluster and VMware Solution Implementation Jon Tate, Angelo Bernasconi, Torben Jensen, Ian MacQuarrie, Ole Rasmussen, Matthew Robinson, Steven Tong, IBM Redbooks, 2013-07-28 This IBM Redbooks publication describes the IBM Storage Area Network and IBM SAN Volume Controller Stretched Cluster solution when combined with VMware We describe guidelines settings and implementation steps necessary to achieve a satisfactory implementation Business continuity and continuous application availability are among the top requirements for many organizations today Advances in virtualization storage and networking have made enhanced business continuity possible Information technology solutions can now be designed to manage both planned and unplanned outages and the flexibility and cost efficiencies available from cloud computing models IBM has designed a solution that offers significant functionality for maintaining business continuity in a VMware environment This functionality provides the capability to dynamically move applications across data centers without interruption to those applications The live application mobility across data centers relies on these products and technology The industry proven VMware Metro vMotion IBM System Storage SAN Volume Controller Stretched Cluster solution A Layer 2 IP Network and storage networking infrastructure for high performance traffic management DC interconnect

The Static and Dynamic Continuum Theory of Liquid Crystals Iain W. Stewart, 2019-01-10 Given the widespread interest in macroscopic phenomena in liquid crystals stemming from their applications in displays and devices The need has arisen for a rigorous yet accessible text suitable for graduate students whatever their scientific background This book satisfies that need The approach taken in this text is to introduce the basic continuum theory for nematic liquid crystals in equilibria then it proceeds to simple application of this theory in particular there is a discussion of electrical and magnetic field effects which give rise to Freedericksz transitions which are important in devices This is followed by an account of dynamic theory and elementary viscometry of nematics Discussions of backflow and flow induced instabilities are also included Smectic theory is also briefly introduced and summarised with some examples of equilibrium solutions as well as those with dynamic effects A number of mathematical techniques such as Cartesian tensors and some variational calculus are presented in the appendices

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