



PROBLEM 3.2

(a) Determine the torque T that causes a maximum shearing stress of 45 MPa in the hollow cylindrical steel shaft shown. (b) Determine the maximum shearing stress caused by the same torque T in a solid cylindrical shaft of the same cross-sectional area.

SOLUTION

(a) Given shaft:

$$J = \frac{\pi}{2} (c_2^4 - c_1^4)$$

$$J = \frac{\pi}{2} (45^4 - 30^4) = 5.1689 \times 10^6 \text{ mm}^4 = 5.1689 \times 10^{-6} \text{ m}^4$$

$$\tau = \frac{Tc}{J} \quad T = \frac{J\tau}{c}$$

$$T = \frac{(5.1689 \times 10^{-6})(45 \times 10^6)}{45 \times 10^{-3}} = 5.1689 \times 10^3 \text{ N} \cdot \text{m}$$

$$T = 5.17 \text{ kN} \cdot \text{m} \quad \blacktriangleleft$$

(b) Solid shaft of same area:

$$\begin{aligned} J &= \frac{\pi}{2} c^4 \\ 5.1689 \times 10^{-6} &= \frac{\pi}{2} c^4 \\ c^4 &= \frac{2(5.1689 \times 10^{-6})}{\pi} \\ c &= \sqrt[4]{\frac{2(5.1689 \times 10^{-6})}{\pi}} \\ c &= 20.7 \text{ mm} \end{aligned}$$

PROBLEM 3.2

Mechanics Of Materials 6th Edition Chapter 3 Solutions

I. Ya Kats, A.A. Martynyuk



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Stress, Strain, and Structural Dynamics Bingen Yang, 2022-09-13 Stress Strain and Structural Dynamics An Interactive Handbook of Formulas Solutions and MATLAB Toolboxes Second Edition is the definitive reference to statics and dynamics of solids and structures including mechanics of materials structural mechanics elasticity rigid body dynamics vibrations structural dynamics and structural controls The book integrates the development of fundamental theories formulas and mathematical models with user friendly interactive computer programs that are written in MATLAB This unique merger of technical reference and interactive computing provides instant solutions to a variety of engineering problems and in depth exploration of the physics of deformation stress and motion by analysis simulation graphics and animation Combines knowledge of solid mechanics with relevant mathematical physics offering viable solution schemes Covers new topics such as static analysis of space trusses and frames vibration analysis of plane trusses and frames transfer function formulation of vibrating systems and more Empowers readers to better integrate and understand the physical principles of classical mechanics the applied mathematics of solid mechanics and computer methods Includes a companion website that features MATLAB exercises for solving a wide range of complex engineering analytical problems using closed solution methods to test against numerical and other open ended methods *Materials* Michael F. Ashby, Hugh Shercliff, David Cebon, 2009-11-20 Materials Engineering Science Processing and Design Second Edition was developed to guide material selection and understanding for a wide spectrum of engineering courses The approach is systematic leading from design requirements to a prescription for optimized material choice This book presents the properties of materials their origins and the way they enter engineering design The book begins by introducing some of the design limiting properties physical properties mechanical properties and functional properties It then turns to the materials themselves covering the families the classes and the members It identifies six broad families of materials for design metals ceramics glasses polymers elastomers and hybrids that combine the properties of two or more of the others The book presents a design led strategy for selecting materials and processes It explains material properties such as yield and plasticity and presents elastic solutions for common modes of loading The remaining chapters cover topics such as the causes and prevention of material failure cyclic loading fail safe design and the processing of materials Design led approach motivates and engages students in the study of materials science and engineering through real life case studies and illustrative applications Highly visual full color graphics facilitate understanding of materials concepts and properties Chapters on materials selection and design are integrated with chapters on materials fundamentals enabling students to see how specific fundamentals can be important to the design process Links with the Cambridge Engineering Selector CES EduPack the powerful materials selection software See www.grantadesign.com for information NEW TO THIS EDITION Guided Learning sections on crystallography phase diagrams and phase transformations enhance students learning of these key foundation topics Revised and expanded chapters on durability and

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Composite Materials, 6th Japan/US Conference Kier M. Finlayson, Kenton R. Osborn, Waleed Shalaby, 1993-01-15 This book contains technical papers presented at the Sixth Japan U S Conference on Composite Materials held in Orlando in 1982 on various topics including stress analysis interfaces and material systems micromechanics structural analysis design and optimization and strength analysis

Advanced Mechanics of Materials and Applied Elasticity Ansel C. Ugural, Saul K. Fenster, 2019-07-29 The Leading Practical Guide to Stress Analysis Updated with State of the Art Methods Applications and Problems This widely acclaimed exploration of real world stress analysis reflects advanced methods and applications used in today s mechanical civil marine aeronautical engineering and engineering mechanics science environments Practical and systematic Advanced Mechanics of Materials and Applied Elasticity Sixth Edition has been updated with many new examples figures problems MATLAB solutions tables and charts The revised edition balances discussions of advanced solid mechanics elasticity theory classical analysis and computer oriented approaches that facilitate solutions when problems resist conventional analysis It illustrates applications with case studies worked examples and problems drawn from modern applications preparing readers

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Bio-Inspired Materials Ulisses Targino Bezerra, Heber Sivini Ferreira, Normando Perazzo Barbosa, 2019-04-16 Nature has provided opportunities for scientists to observe patterns in biomaterials which can be imitated when designing construction materials Materials designed with natural elements can be robust and environment friendly at the same time Advances in our understanding of biology and materials science coupled with the extensive observation of nature have stimulated the search for better accommodation compression of materials and the higher organization reduction of mechanical stress in man made structures Bio Inspired Materials is a collection of topics that explore frontiers in 3 sections of bio inspired design i bionics design ii bio inspired construction and iii bio materials Chapters in each section address the most recent advances in our knowledge about the desired and expected relationship between humans and nature and its use in bio inspired buildings Readers will also be introduced to new concepts relevant to bionics biomimicry and biomimetics Section i presents research concepts based on information gained from the direct observation of nature and its applications for human living Section ii is devoted to artificial construction of the Earth This section addresses issues on geopolymers materials that resemble the structure of soils and natural rocks procedures that reduce damage caused by earthquakes in natural construction the development of products from vegetable resins and construction principles using bamboo The last section takes a look into the future towards the improvement of human living conditions Bio Inspired Materials offers readers having a background in architecture civil engineering and systems biology a new perspective about sustainable building which is a key part of addressing the environmental concerns of current times *Applied Mechanics Reviews*, 1974

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Stability and Stabilization of Nonlinear Systems with Random Structures I. Ya Kats,A.A. Martynyuk,2002-08-22 Nonlinear systems with random structures arise quite frequently as mathematical models in diverse disciplines This monograph presents a systematic treatment of stability theory and the theory of stabilization of nonlinear systems with random structure in terms of new developments in the direct Lyapunov s method The analysis focuses on dynamic systems with random Markov parameters This high level research text is recommended for all those researching or studying in the fields of applied mathematics applied engineering and physics particularly in the areas of stochastic differential equations dynamical systems stability and control theory

Applied Fluid Mechanics Merle C. Potter,David C. Wiggert,2024-10-03 This textbook can be used for the second required course in fluid mechanics It can be used for the mechanical engineering or civil engineering programs This book reviews the more conventional elemental approach for pipe flow channel flow and flow between cylinders It discusses the derivation and application of the Navier Stokes equations to several flow situations The content presented in this book is especially designed for civil engineering students with detailed text on open channel flow piping systems turbomachinery and for mechanical engineering students with detailed text on the potential flow external flows including boundary layer theory and compressible flow The text is designed to allow students to better understand each topic aided by numerous examples and home problems Students often find it quite difficult to understand many concepts encountered in fluid mechanics such as laminar flow the entrance region the separated region and turbulence The book ensures that these concepts are presented correctly and in an easy to understand format This book also presents all derivations and phenomena in such a way that they are more easily understood when compared with the presentations of other textbooks

A Posteriori Error Analysis Via Duality Theory Weimin Han,2006-07-30 This work provides a posteriori error analysis for mathematical idealizations in modeling boundary value problems especially those arising in mechanical applications and for numerical approximations of numerous nonlinear variational problems An error estimate is called a posteriori if the computed solution is used in assessing its accuracy A posteriori error estimation is central to measuring controlling and minimizing errors in modeling and numerical approximations In this book the main mathematical tool for the developments of a posteriori error estimates is the duality theory of convex analysis documented in the well known book by Ekeland and Temam 49 The duality theory has been found useful in mathematical programming mechanics numerical analysis etc The book is divided into six chapters The first chapter reviews some basic notions and results from functional analysis boundary value problems elliptic variational inequalities and

finite element approximations The most relevant part of the duality theory and convex analysis is briefly reviewed in Chapter 2

The Scaled Boundary Finite Element Method Chongmin Song, 2018-06-19 An informative look at the theory computer implementation and application of the scaled boundary finite element method This reliable resource complete with MATLAB is an easy to understand introduction to the fundamental principles of the scaled boundary finite element method It establishes the theory of the scaled boundary finite element method systematically as a general numerical procedure providing the reader with a sound knowledge to expand the applications of this method to a broader scope The book also presents the applications of the scaled boundary finite element to illustrate its salient features and potentials The Scaled Boundary Finite Element Method Introduction to Theory and Implementation covers the static and dynamic stress analysis of solids in two and three dimensions The relevant concepts theory and modelling issues of the scaled boundary finite element method are discussed and the unique features of the method are highlighted The applications in computational fracture mechanics are detailed with numerical examples A unified mesh generation procedure based on quadtree octree algorithm is described It also presents examples of fully automatic stress analysis of geometric models in NURBS STL and digital images Written in lucid and easy to understand language by the co inventor of the scaled boundary element method Provides MATLAB as an integral part of the book with the code cross referenced in the text and the use of the code illustrated by examples Presents new developments in the scaled boundary finite element method with illustrative examples so that readers can appreciate the significant features and potentials of this novel method especially in emerging technologies such as 3D printing virtual reality and digital image based analysis The Scaled Boundary Finite Element Method Introduction to Theory and Implementation is an ideal book for researchers software developers numerical analysts and postgraduate students in many fields of engineering and science

Finite Element Modeling for Stress Analysis Robert D. Cook, 1995-01-12 This undergraduate text is designed for those who will use finite elements in their daily work It emphasizes the behaviour of finite elements and describes how to use the methods successfully while including enough theory to explain why elements behave as they do

Numerical Methods in Structural Mechanics Zdenek Bittnar, Jiri Sejnoha, 1996-04-05 A detailed presentation is offered of the fundamental equations in solid mechanics focusing on constitutive equations including quasibrittle materials Details are provided on individual numerical algorithms with a heavier emphasis placed on the understanding of basic principles

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El-Metwally, 2011-05-24 In our world of seemingly unlimited computing numerous analytical approaches to the estimation of stress strain and displacement including analytical numerical physical and analog techniques have greatly advanced the practice of engineering Combining theory and experimentation computer simulation has emerged as a third path for engineering **The Shock and Vibration Digest** ,1984

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