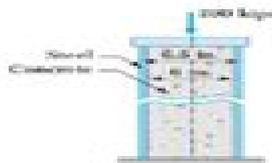# MEMAT/MECH211 – MECHANICS OF DEFORMABLE BODIES
SOLVED STATICALLY INDETERMINATE PROBLEMS

PROBLEM 1

The figure shows the cross section of a circular steel tube that is filled with concrete and topped with a rigid cap. Calculate the stresses in the steel and in the concrete caused by the 200-kip axial load. Use $E_{st} = 29 \times 10^6$ psi and $E_{co} = 3.5 \times 10^6$ psi.

Equilibrium:

$$\sigma_{st}A_{st} + \sigma_{co}A_{co} = P \qquad (a)$$

Compatibility:

$$\epsilon_{st} = \epsilon_{co} \qquad \frac{\sigma_{st}}{E_{st}} = \frac{\sigma_{co}}{E_{co}} \qquad \sigma_{co} = \sigma_{st}\frac{E_{co}}{E_{st}} \qquad (b)$$

Substituting into Eq. (a), we get

$$\sigma_{st}\left(\frac{E_{co}}{E_{st}}A_{co} + A_{st}\right) = P$$

$$\sigma_{st}\left[\frac{3.5}{29}\frac{\pi(5^2)}{4} + \frac{\pi}{4}(6.5^2 - 5^2)\right] = 200 \times 10^3$$

$$\sigma_{st} = 24040 \text{ psi}$$

From Eq. (b):

$$\sigma_{co} = 24040 \frac{3.5}{29} = 2900 \text{ psi}$$

PROBLEM 2

A reinforced concrete column 200 mm in diameter is designed to carry an axial compressive load of 320 kN. Determine the required cross-sectional area of the reinforcing steel if the allowable stresses are 6 MPa for concrete and 120 MPa for steel. Use $E_{co} = 14$ GPa and $E_{st} = 200$ GPa.

Compatibility: $\epsilon_{st} = \epsilon_{co}$ gives $(\sigma/E)_{st} = (\sigma/E)_{co}$. If the concrete governs, the stress in the steel would be

$$\sigma_{st} = \frac{E_{st}}{E_{co}}\sigma_{co} = \frac{200}{14}(6) = 85.71 \text{ MPa}$$

Because 85.71 MPa is less than $(\sigma_w)_{st} = 120$ MPa, the concrete governs. Equilibrium gives $P_{st} + P_{co} = 320$ kN:

$$\sigma_{st}A_{st} + \sigma_{co}A_{co} = 320 \text{ kN}$$

$$(85.71 \times 10^6)A_{st} + (6 \times 10^6)\left(\frac{\pi(0.200)^2}{4} - A_{st}\right) = 320 \times 10^3 \text{ N}$$

which gives $A_{st} = 1.650 \times 10^{-3} \text{ m}^2 = 1650 \text{ mm}^2$

PROBLEM 3

A timber column, 8 in. by 8 in. in cross section, is reinforced on all four sides by steel plates, each plate being 8 in. wide and t in. thick. Determine the smallest value of t for which the column can support an axial load of 300 kips if the working stresses are 1200 psi for timber and 20 ksi for steel. The moduli of elasticity are 1.5×10^6 psi for timber and 29×10^6 psi for steel.

Compatibility: $\epsilon_{st} = \epsilon_{wood}$ gives $(\sigma/E)_{st} = (\sigma/E)_{wood}$. If the steel governs, the stress in the wood would be

$$\sigma_{wood} = \frac{E_{wood}}{E_{st}}\sigma_{st} = \frac{1.5}{29}(20 \times 10^3) = 1034 \text{ psi}$$

Because 1034 psi is less than $(\sigma_w)_{wood} = 1200$ psi, the steel governs. Equilibrium gives $P_{st} + P_{wood} = 300$ kips.

$$\sigma_{st}A_{st} + \sigma_{wood}A_{wood} = 300 \times 10^3 \text{ lb}$$

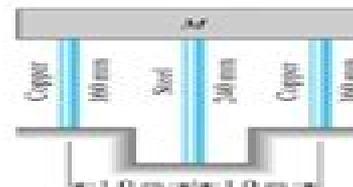$$(20 \times 10^3)(4)(8t) + (1034)(64) = 300 \times 10^3 \text{ lb}$$

which gives $t = 0.365$ in.

PROBLEM 4

The rigid block of mass M is supported by the three symmetrically placed rods. The ends of the rods were level before the block was attached. Determine the largest allowable value of M if the properties of the rods are as listed:

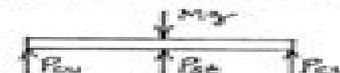|	E (GPa)	A (mm²)	σ_w (MPa)
Copper	120	900	70
Steel	200	1200	140

Compatibility: $\delta_{st} = \delta_{cu}$ gives $(\sigma L/E)_{st} = (\sigma L/E)_{cu}$. If copper governs, the stress in the steel would be

$$\sigma_{st} = \frac{E_{st}L_{cu}}{E_{cu}L_{st}}\sigma_{cu} = \frac{(200)(160)}{(120)(240)}(70) = 77.78 \text{ MPa}$$

Because 77.78 MPa is less than $(\sigma_w)_{st} = 140$ MPa, the copper governs. Equilibrium gives:

$$2P_{cu} + P_{st} = Mg$$
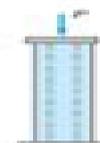$$2\sigma_{cu}A_{cu} + \sigma_{st}A_{st} = Mg$$

$$2[(70 \times 10^6)(900 \times 10^{-6})] + (77.78 \times 10^6)(1200 \times 10^{-6}) = M(9.81)$$

which yields $M = 22.4 \times 10^3$ kg

PROBLEM 5

The concrete column is reinforced by four steel bars of total cross-sectional area 1250 mm². If the working stresses for steel and concrete are 180 MPa and 15 MPa, respectively, determine the largest axial force P that can be safely applied to the column. Use $E_{st} = 200$ GPa and $E_{co} = 24$ GPa.

$$A_{st} = 1250 \times 10^{-6} \text{ m}^2$$
$$A_{co} = (250^2 - 1250) \times 10^{-6} = 61.25 \times 10^{-3} \text{ m}^2$$

Equilibrium:

$$\sigma_{st}A_{st} + \sigma_{co}A_{co} = P \qquad (a)$$

Compatibility:

$$\epsilon_{st} = \epsilon_{co} \qquad \frac{\sigma_{st}}{E_{st}} = \frac{\sigma_{co}}{E_{co}} \qquad \sigma_{st} = \frac{E_{st}}{E_{co}}\sigma_{co} \qquad (b)$$

Substituting into Eq. (a):

$$\sigma_{co}\left(\frac{E_{st}}{E_{co}}A_{st} + A_{co}\right) = P$$

Assuming that concrete governs, we let $\sigma_{co} = (\sigma_w)_{co}$, which yields

$$P = 15 \times 10^6\left[\frac{200}{24}(1250 \times 10^{-6}) + 61.25 \times 10^{-3}\right]$$
$$= 1.075 \times 10^6 \text{ N} = 1.075 \text{ MN}$$

Check stress in steel using Eq. (b):

$$\sigma_{st} = \frac{200}{24}(15) = 125 \text{ MPa} \leq (\sigma_w)_{st} \text{ O.K.}$$

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Amir Mohammadipour, Ph.D.,Hossein Karagah, Ph.D., P.E.

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chapter 10 Delaminations and significant updates throughout the remaining chapters Furthermore it updates all examples sample code and problems to Abaqus 2020 Unlike other texts this one takes theory to a hands on level by actually solving problems It explains the concepts involved in the detailed analysis of composites the mechanics needed to translate those concepts into a mathematical representation of the physical reality and the solution of the resulting boundary value problems using Abaqus The reader can follow a process to recreate every example using Abaqus graphical user interface CAE by following step by step directions in the form of pseudo code or watching the solutions on YouTube The first seven chapters provide material ideal for a one semester course Along with offering an introduction to finite element analysis for readers without prior knowledge of the finite element method these chapters cover the elasticity and strength of laminates buckling analysis free edge stresses computational micromechanics and viscoelastic models for composites Emphasizing hereditary phenomena the book goes on to discuss continuum and discrete damage mechanics as well as delaminations and fatigue The text also shows readers how to extend the capabilities of Abaqus via user subroutines and Python scripting Aimed at advanced students and professional engineers this textbook features 62 fully developed examples interspersed with the theory 82 end of chapter exercises and 50 separate pieces of Abaqus pseudo code that illustrate the solution of example problems The author s website offers the relevant Abaqus and MATLAB model files available for download enabling readers to easily reproduce the examples and complete the exercises https barbero cadec online com feacm abaqus index html Video recording of solutions to examples are available on YouTube with multilingual captions **The Practice of Business Statistics Problems Book** Moore,2002-12 Strengths-Based Teaching and Learning in Mathematics Beth McCord Kobett,Karen S. Karp,2020-02-27 This book is a game changer Strengths Based Teaching and Learning in Mathematics 5 Teaching Turnarounds for Grades K 6 goes beyond simply providing information by sharing a pathway for changing practice Focusing on our students strengths should be routine and can be lost in the day to day teaching demands A teacher using these approaches can change the trajectory of students lives forever All teachers need this resource Connie S Schrock Emporia State University National Council of Supervisors of Mathematics President 2017 2019 NEW COVID RESOURCES ADDED A Parent s Toolkit to Strengths Based Learning in Math is now available on the book s companion website to support families engaged in math learning at home This toolkit provides a variety of home based activities and games for families to engage in together Your game plan for unlocking mathematics by focusing on students strengths We often evaluate student thinking and their work from a deficit point of view particularly in mathematics where many teachers have been taught that their role is to diagnose and eradicate students misconceptions But what if instead of focusing on what students don t know or haven t mastered we identify their mathematical strengths and build next instructional steps on students points of power Beth McCord Kobett and Karen S Karp answer this question and others by highlighting five key teaching turnarounds for improving students mathematics learning identify teaching strengths discover and leverage students strengths design

instruction from a strengths based perspective help students identify their points of power and promote strengths in the school community and at home Each chapter provides opportunities to stop and consider current practice reflect and transfer practice while also sharing Downloadable resources activities and tools Examples of student work within Grades K 6 Real teachers notes and reflections for discussion It s time to turn around our approach to mathematics instruction end deficit thinking and nurture each student s mathematical strengths by emphasizing what makes them each unique and powerful

Strength of Materials, 4th Edition Bhavikatti S.S., A comprehensive coverage student friendly approach and the all steps explained style This has made it the best selling book among all the books on the subject The author s zeal of presenting the text in line with the syllabuses has resulted in the edition at hand which continues its run with all its salient features as earlier Thus it takes care of all the syllabuses on the subject and fully satisfies the needs of engineering students KEY FEATURES Use of SI units Summary of important concepts and formulae at the end of every chapter A large number of solved problems presented systematically A large number of exercise problems to test the students ability Simple and clear explanation of concepts and the underlying theory in each chapter Generous use of diagrams more than 550 for better understanding NEW IN THE FOURTH EDITION Overhaul of the text to match the changes in various syllabuses Additional topics and chapters for the benefit of mechanical engineers like Stresses and strains in two and three dimensional systems and Hooke s law Euler s buckling load and secant formula Deflection of determinate beams using moment area and conjugate beam methods Deflection of beams and rigid frames by energy methods Redrawing of some diagrams **Teach to Develop Talent** Jeanne L. Paynter,2020-12-20 Nurture the talents of all learners Are you cultivating the real world creative problem solving skills today s diverse learners need for future success Or have we leaned so far into test preparation that we ve left no room for developing our students unique talents leaving them disengaged and unmotivated With the new brain based Talent Targeted Teaching and Learning model described in this book you can focus instead on developing all students metacognitive creative problem solving and leadership skills alongside the required content standards Teach to Develop Talent applies the psychology of motivation engagement and achievement to practical culturally responsive strategies educators can use to equitably identify and develop students cognitive and social emotional skills including curiosity creativity perseverance reasoning persistence empathy and more With this book you can Identify and develop all learners aptitudes for innovation in STEM and humanities Transform any curriculum or standards into long term aims for talent development Support and assess student progress with dozens of customizable checklists templates rubrics and surveys Challenge and engage all learners especially diverse gifted students Ideal for implementation in virtual or traditional learning environments you will ensure your students long range and multi faceted success with this hands on guide The Technology Teacher ,2002 **The Software Encyclopedia 2000** Bowker Editorial Staff,2000-05 Network World ,1997-08-25 For more than 20 years Network World has been the premier provider of information intelligence and insight for

network and IT executives responsible for the digital nervous systems of large organizations Readers are responsible for designing implementing and managing the voice data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce **Wiley CPA Examination Review 2005-2006, Problems and Solutions** Patrick R. Delaney,O. Ray Whittington,2005-07-01 Wiley CPA Exam review 32nd Edition 2005 2006 Volume 1 Outlines and Study Guides Covers all four sections of the CPA examination point by point Stresses important topical areas to study for each part Helps establish a self study preparation program Divides exam into 45 manageable study units Provides an outline format supplemented by brief examples and illustrations Makes material easy to read understand and remember Includes timely up to the minute coverage for the computerized exam Explains step by step examples of the solutions approach Contains all current AICPA content requirements for all four sections of the exam Volume 2 Problems and Solutions Offers selected problems from all four examination sections Contains rationale for correct or incorrect multiple choice answers Covers the new simulation style problems offering more than 75 practice questions Details a solutions approach to each problem Updates unofficial answers to reflect current laws and standards Groups multiple choice questions into topical categories within modules for easy cross referencing Provides a sample examination for each of the four exam parts The computer based CPA exam is here Are you ready GET EVEN MORE INFORMATION ONLINE You ll find a wide range of aids for doing your best on the CPA exam at wiley com cpa including content updates CPA exam study and test taking tips and more All Wiley CPA Exam Review products are listed on the site **Proceedings of the ... ASME Design Engineering Technical Conferences** ,2006 *Leading and Managing in Nursing - E-Book* Patricia S. Yoder-Wise,2018-11-14 Help students prepare for the NCLEX and their transition to practice Organized around the issues in today s constantly changing healthcare environment Leading and Managing in Nursing 7th Edition offers an innovative approach to leading and managing by merging theory research and practical application This cutting edge text includes coverage of patient safety consumer relationships cultural diversity resource management delegation and communication In addition it provides just the right amount of information to equip students with the tools they need to master leadership and management which will better prepare them for clinical practice UPDATED Fresh content and references related to conflict mediation and arbitration personal personnel issues violence and incivility and delegation included in their respective chapters Separate chapters on key topic areas such as cultural diversity consumer relationships delegation managing information and technology legal and ethical issues and many more Eye catching full color design helps engage and guide students through each chapter UNIQUE Each chapter opens with The Challenge where practicing nurse leaders managers offer their real world views of a concern related in the chapter encouraging students to think about how they would handle the situation UNIQUE The Solution closes each chapter with an effective method to handle the real life situation presented in The Challenge and demonstrates the ins and outs of problem solving in practice The Evidence boxes in each chapter

summarize relevant concepts and research from nursing business medicine literature Theory boxes highlight and summarize pertinent theoretical concepts related to chapter content UPDATED Chapter 2 Clinical Safety The Core of Leading Managing and Following features the latest guidelines for ensuring patient safety QSEN updates and it will also include some new tools to help with assessing managing patient safety in the hospital setting UPDATED Chapter 16 The Impact of Technology includes information on future trends such as Health Information Exchange HIE data warehouses with predictive analytics and information on decision support systems and their impact on patient care UPDATED Chapter 12 Care Delivery Strategies covers different nursing care delivery models used to organize care in a variety of healthcare organizations UPDATED Chapter 14 Workforce Engagement through Collective Action and Governance provides information on how to assess work environments through assessing organizational and governance characteristics nurse empowerment engagement strategies and a variety of collective action and bargaining strategies that can shape nurses practice **Digital Transformation in the Construction Industry** Ehsan Noroozinejad Farsangi,Mohammad Noori,T.Y. Yang,Vasilis Sarhosis,Seyedali Mirjalili,Mirosław J. Skibniewski,2025-05-16 Digital Transformation in the Construction Industry Sustainability Resilience and Data Centric Engineering delivers timely and much sought after guidance related to novel digital first practices and the latest technological tools the gradual adoption of which is being embraced to significantly reshape the way buildings and other infrastructure assets are designed constructed operated and maintained Methodological and practice informed investigations by scholars and researchers from across the globe providing a wealth of knowledge relevant for and applicable to different geographical and economic contexts are coherently collated in this edited volume This systematic analysis of cutting edge developments such as Building Information Modeling Internet of Things Artificial Intelligence Machine Learning Big Data Augmented Reality Virtual Reality 3D Printing and Structural Health Monitoring is accompanied by discussions on challenges and opportunities that digitalization engenders Additionally real word case studies enrich the coverage highlighting how these innovative solutions can contribute to establishing working efficiencies that can at the same time aid the impactful realization of globally recognized sustainability goals Readers in both academic and professional settings are therefore not only equipped with a comprehensive overview of the state of the art but also offered an insightful reference resource for future works in the area Covers emerging technologies comprehensively Emphasizes the use of digital tools to support achievements for worldwide net zero targets Focuses on lean and agile construction practices to improve project efficiency and reduce waste *Strength of Materials* Amir Mohammadipour, Ph.D.,Hossein Karagah, Ph.D., P.E.,2020-04-15 NOTE If you have difficulties on seeing the interactive features in Adobe Acrobat after exporting downloading please email eJoy Academy at ejoyacademy director1 gmail com so that we can directly send you the original PDF file The unique interactive features may get flattened by Google Play after exporting downloading Strength of materials or mechanics of materials is a fundamental course in civil mechanical aeronautical and nuclear engineering which deals with the stress

analysis of components of structural and mechanical systems subjected to different types of force and thermal loadings This book is intended for sophomore and senior undergraduate engineering students as well as junior practicing engineers While this book is not a replacement for strength of materials textbooks its main objective is to provide readers with real world examples to become familiar with practical applications and projects and to develop in them the ability to analyze a given problem in a simple and logical manner This ebook also employs interactive features to transform 200 traditionally formatted pages into an innovative representation This makes the study of the ebook more enjoyable by navigating through different windows and slides on the same page without the need to go to other pages This is the distinctive groundbreaking attribute of this ebook which has not yet been implemented in other engineering digital books to the best of authors knowledge The book contains four problems with four different real world examples of structural or mechanical components The first two problems pertain to the fundamental concepts in bending shear and torsion and steps required to obtain critical stress values in a component a bicycle handlebar and a perimeter beam of an exterior brick wall in a building subjected to external mechanical loads Problem 3 solves a statically indeterminate shaft under torsional loading Being the first of its kind in strength of materials this problem obtains support reactions of the shaft with various support conditions including fully and partially bonded prismatic and non prismatic supports Finally problem 4 presents a pre stressed concrete column subjected to mechanical and thermal loadings It analyzes the pre stressing force of the column during fabrication and at service under external and thermal loadings The problem then concludes with introducing the concept of kernel and eccentric loading for the column All problems end with several review questions along with detailed answers in order to provide readers with a self evaluating tool Moreover definitions and notions which are used in the book but are introduced in other courses than the strength of materials are provided in the Glossary section to make it as independent of other references or further readings as possible **Green Building Materials** Gonzalo Martínez-Barrera,Stanislav Kolisnychenko,2022-09-09 Aggregated Book A Textbook of Strength of Materials RS Khurmi | N Khurmi,2019 Strength of Materials Mechanics of Solids in SI Units is an all inclusive text for students as it takes a detailed look at all concepts of the subject Distributed evenly in 35 chapters important focusses are laid on stresses strains inertia force beams joints and shells amongst others Each chapter contains numerous solved examples supported by exercises and chapter end questions which aid to the understanding of the concepts explained A book which has seen foreseen and incorporated changes in the subject for close to 50 years it continues to be one of the most sought after texts by the students for all aspects of the subject **McGraw-Hill Education GMAT 2016** Sandra Luna McCune,Shannon Reed,2015-08-28 This go to study guide provides the concepts study strategies and practice students need to dramatically raise your GMAT score McGraw Hill Education GMAT focuses on the fundamental concepts tested on the exam as well as the reasoning and analytical skills necessary to overcome common traps The book covers the foundations of each essential concept introduces strategies developed by the authors and includes review exercises in each

chapter so you can increase your test taking confidence Practice Test App includes 10 interactive practice tests four from the book and six additional tests Test Planner app helps you organize your time and set your own study schedules Answer keys provide full explanations that identify common errors **FUNDAMENTALS OF STRENGTH OF MATERIALS** Chandramouli, P. N.,2012-10-12 This book provides comprehensive coverage of the fundamental concepts and all the key topics of interest in Strength of Materials with an emphasis on solving practical problems from the first principles related to the design of structural members mechanical devices and systems in several fields of engineering The book is organized to present a thorough treatment of stress analysis first This treatment of basic principles is followed by appropriate application of analysis techniques and design approaches to trusses and cables torsion in circular shaft deflection of beams buckling of straight columns and struts and analysis of thick and thin walled cylinders under internal and external pressure The book features clear explanations a wealth of excellent worked out examples of practical applications and challenging problems The book is intended for the undergraduate students of civil mechanical electrical chemical aeronautical and production and industrial engineering Key Features Provides a large number of worked out examples to help students comprehend the concepts with ease Gives chapter end review questions to test students understanding of the subject Includes chapter end numerical problems to enhance the problem solving ability of students Many of the problems depict realistic situations encountered in engineering practice Incorporates objective type questions to help students assess their overall mastery of the subject

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Table of Contents Strength Of Materials Solved Problems Download

1. Understanding the eBook Strength Of Materials Solved Problems Download
    - The Rise of Digital Reading Strength Of Materials Solved Problems Download
    - Advantages of eBooks Over Traditional Books
2. Identifying Strength Of Materials Solved Problems Download
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Strength Of Materials Solved Problems Download
    - User-Friendly Interface

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