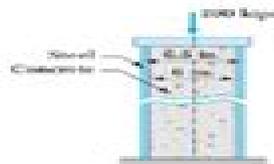


**MEMAT/MECH211 – MECHANICS OF DEFORMABLE BODIES
SOLVED STATICALLY INDETERMINATE PROBLEMS**

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 $E_s = 29 \times 10^6$ psi and $E_c = 3.5 \times 10^6$ psi.



$$\sigma_s A_s + \sigma_c A_c = P \quad (a)$$

Compatibility:

$$\epsilon_s = \epsilon_c \quad \frac{\sigma_s}{E_s} = \frac{\sigma_c}{E_c} \quad \sigma_s = \sigma_c \frac{E_s}{E_c} \quad (b)$$

Substituting into Eq. (a), we get

$$\sigma_s \left(\frac{E_s}{E_c} A_c + A_s \right) = P$$

$$\sigma_s \left[\frac{2.5 \pi (5^2)}{4} + \frac{\pi}{4} (6.5^2 - 5^2) \right] = 200 \times 10^3$$

$$\sigma_s = 24040 \text{ psi} \quad \blacktriangleleft$$

From Eq. (b):

$$\sigma_c = 24040 \frac{2.5}{29} = 2060 \text{ psi} \quad \blacktriangleleft$$

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

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

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

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

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

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

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 modulus of elasticity are 1.5×10^6 psi for timber and 29×10^6 psi for steel.

Compatibility: $\epsilon_{st} = \epsilon_{timber}$ gives $(\sigma/E)_{st} = (\sigma/E)_{timber}$

If the steel governs, the stress in the wood would be

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

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

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

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

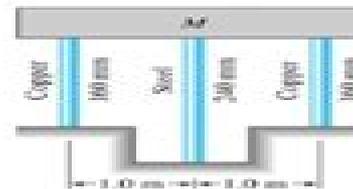
$$\text{which gives } t = 0.365 \text{ in.} \quad \blacktriangleleft$$



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 (mm ²)	σ_w (MPa)
Copper	120	900	70
Steel	200	1200	140



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

$$\sigma_{st} = \frac{E_{st} L_{cs}}{E_{cs} L_{st}} \sigma_{cs} = \frac{(200)(140)}{(120)(70)} (70) = 77.78 \text{ MPa}$$

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

$$2P_{cs} + P_{st} = Mg$$

$$2\sigma_{cs} A_{cs} + \sigma_{st} A_{st} = Mg$$

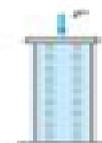


$$2[(70 \times 10^6)(900 \times 10^{-6})] + (77.78 \times 10^6)(1200 \times 10^{-6}) = M(9.81)$$

$$\text{which yields } M = 22.4 \times 10^3 \text{ kg} \quad \blacktriangleleft$$

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 150 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:

$$\sigma_{cs} A_{cs} + \sigma_{st} A_{st} = P \quad (a)$$

Compatibility:

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

Substituting into Eq. (a):

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

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

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

$$= 1.075 \times 10^6 \text{ N} = 1.075 \text{ MN} \quad \blacktriangleleft$$

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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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 *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

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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

Strength of Materials P. Purushothama Raj,V. Ramasamy, Strength of Materials is designed for the undergraduate students of civil and mechanical engineering for their core paper on Strength of Materials The book offers detailed explanations with clear illustrations and a wide variety of solved problems The step by step derivations help students relate to the concepts easily

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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

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Problems in Strength of Materials N. M. Belyayev,2016-06-06 Problems in Strength of Materials focuses on processes and methodologies involved in assessing the strength of materials The book first discusses tension and compression Statistically determinate and indeterminate systems self weight and calculation of flexible wires and cables are explained The text also focuses on state of compound stress Topics include uniaxial and plane states of stress calculation of thin and thick walled vessels and contact stresses The shear and torsion of round bars is also considered The text also takes a look at plane flexure Calculation of composite beams second moments of area of plane figures construction of shear force and bending moment diagrams and normal and shear stresses accompanying flexure are underscored The text discusses the determination of deformations accompanying flexure and calculation of statically indeterminate systems The book also describes combined loading method of allowable loads and dynamic and continuous loading The text is highly recommended for readers interested in the processes and methodologies in determining the strength of materials **Green**

Building Materials Gonzalo Martínez-Barrera,Stanislav Kolisnychenko,2022-09-09 Aggregated Book

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