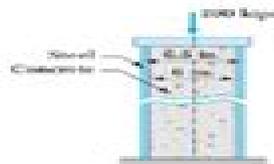


**MEMAT/MECH211 – MECHANICS OF DEFORMABLE BODIES  
SOLVED STATICALLY INDETERMINATE PROBLEMS**

**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

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

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

$$\sigma_s = 24,040 \text{ psi} \quad \blacktriangleleft$$

From Eq. (b):

$$\sigma_c = 24,040 \frac{3.5}{29} = 2900 \text{ psi} \quad \blacktriangleleft$$

**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  $1.5 \times 10^6$  psi for timber and  $29 \times 10^6$  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  $(\sigma_{st})_{wood} = 1200$  psi, the steel governs. Equilibrium gives  $P_{st} + P_{wood} = 300$  kips.

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

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

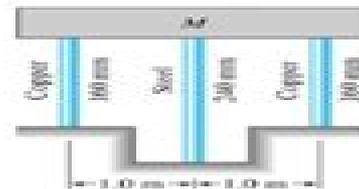
$$\text{which gives } t = 0.365 \text{ in.} \quad \blacktriangleleft$$



**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 <sup>2</sup> )	$\sigma_w$ (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 mm<sup>2</sup>. 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.



$$\text{Diameter } \phi = 250 \text{ mm}$$

$$A_c = 1250 \times 10^{-6} \text{ m}^2$$

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

Equilibrium:

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

Compatibility:

$$\epsilon_c = \epsilon_{st} \quad \frac{\sigma_c}{E_c} = \frac{\sigma_{st}}{E_{st}} \quad \sigma_c = \frac{E_c}{E_{st}} \sigma_{st} \quad (b)$$

Substituting into Eq. (a):

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

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

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

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

Check stress in steel using Eq. (b):

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

# Strength Of Materials Solved Problems Download

**Minjie Lin**



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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

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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

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**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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