

1.2-1

Bar in tension



$d_{AB} = 1.75 \text{ in}$ $d_{BC} = 1.75 \text{ in}$
 $\sigma_{AB} = 5000 \text{ psi}$ Find σ_{BC}
 $\sigma = \frac{P}{A}$ and $P = \sigma A$
 $\therefore P = \sigma_{AB} A_{AB} = \sigma_{BC} A_{BC}$
 $(5000 \text{ psi}) \left(\frac{\pi}{4} \right) (1.75 \text{ in})^2 = \sigma_{BC} \left(\frac{\pi}{4} \right) (1.75 \text{ in})^2$
 $\sigma_{BC} = (5000 \text{ psi}) \left(\frac{1.75 \text{ in}}{1.75 \text{ in}} \right)^2$
 $= 9800 \text{ psi} \leftarrow$

(a) Shortening δ of the bar

$\epsilon = 570 \cdot 10^{-6}$
 $\delta = \epsilon L = (570 \cdot 10^{-6})(20 \text{ in})$
 $= 0.0114 \text{ in} \leftarrow$

(b) Compressive load P

$\sigma = 6 \text{ ksi}$
 $A = \frac{\pi}{4} [d_2^2 - d_1^2] = \frac{\pi}{4} [(24 \text{ in})^2 - (2.0 \text{ in})^2]$
 $= 1.382 \text{ in}^2$
 $P = \sigma A = (6 \text{ ksi})(1.382 \text{ in}^2)$
 $= 8290 \text{ lb} \leftarrow$

1.2-2

Free-body diagram of brake pedal



F = compressive force in piston rod
 d = diameter of piston rod
 $= 5 \text{ mm}$

Equilibrium of brake pedal

$\sum M_A = 0$
 $F(50 \text{ mm}) - P(275 \text{ mm}) = 0$
 $F = P \left(\frac{275 \text{ mm}}{50 \text{ mm}} \right) = (40 \text{ N}) \left(\frac{275}{50} \right) = 220 \text{ N}$

Compressive Stress in Piston rod ($d = 5 \text{ mm}$)

$\sigma_c = \frac{F}{A} = \frac{220 \text{ N}}{\frac{\pi}{4} (5 \text{ mm})^2} = 11.2 \text{ MPa} \leftarrow$

1.2-4

Concrete Pedestal in Compression



Use the following areas:

$A_1 = (1.2 \text{ m})(0.5 \text{ m}) = 0.6 \text{ m}^2$
 $A_2 = A_3 = \frac{1}{2} (0.5 \text{ m})(0.25 \text{ m}) = 0.0625 \text{ m}^2$
 $A_3 = (0.25 \text{ m})(0.25 \text{ m}) = 0.16 \text{ m}^2$
 $A = A_1 + 2A_2 + A_3$
 $= 0.6 \text{ m}^2 + 2(0.0625 \text{ m}^2) + 0.16 \text{ m}^2$
 $= 0.92 \text{ m}^2$



(a) Average compressive stress σ_c

$P = 11.5 \text{ MN}$
 $\sigma_c = \frac{P}{A} = \frac{11.5 \text{ MN}}{0.92 \text{ m}^2} = 12.5 \text{ MPa} \leftarrow$

(b) Coordinates of centroid C

From symmetry, $\bar{y} = \frac{1.2 \text{ m}}{2} = 0.6 \text{ m} \leftarrow$
 $\bar{x} = \frac{\sum \bar{x}_i A_i}{A}$ (see Chapter 12, Section 12.3, Eq. 12-7a)
 $\bar{x} = \frac{1}{A} (\bar{x}_1 A_1 + 2\bar{x}_2 A_2 + \bar{x}_3 A_3)$
 $= \frac{1}{0.92 \text{ m}^2} [(0.25 \text{ m})(0.6 \text{ m}^2) + 2(0.625 \text{ m})(0.0625 \text{ m}^2) + (0.25 \text{ m})(0.16 \text{ m}^2)] = 0.395 \text{ m} \leftarrow$

1.2-3

Aluminum tube in compression



$L = 20 \text{ in}$
 Outside diameter $d_2 = 2.4 \text{ in}$
 Inside diameter $d_1 = 2.0 \text{ in}$

CONT.

Elasticity Timoshenko Solution Manual

Marco Cascella



Elasticity Timoshenko Solution Manual:

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1. Understanding the eBook Elasticity Timoshenko Solution Manual
 - The Rise of Digital Reading Elasticity Timoshenko Solution Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Elasticity Timoshenko Solution Manual
 - 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 Elasticity Timoshenko Solution Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Elasticity Timoshenko Solution Manual
 - Personalized Recommendations
 - Elasticity Timoshenko Solution Manual User Reviews and Ratings
 - Elasticity Timoshenko Solution Manual and Bestseller Lists
5. Accessing Elasticity Timoshenko Solution Manual Free and Paid eBooks
 - Elasticity Timoshenko Solution Manual Public Domain eBooks
 - Elasticity Timoshenko Solution Manual eBook Subscription Services
 - Elasticity Timoshenko Solution Manual Budget-Friendly Options
6. Navigating Elasticity Timoshenko Solution Manual eBook Formats

- ePub, PDF, MOBI, and More
 - Elasticity Timoshenko Solution Manual Compatibility with Devices
 - Elasticity Timoshenko Solution Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Elasticity Timoshenko Solution Manual
 - Highlighting and Note-Taking Elasticity Timoshenko Solution Manual
 - Interactive Elements Elasticity Timoshenko Solution Manual
 8. Staying Engaged with Elasticity Timoshenko Solution Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Elasticity Timoshenko Solution Manual
 9. Balancing eBooks and Physical Books Elasticity Timoshenko Solution Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Elasticity Timoshenko Solution Manual
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Elasticity Timoshenko Solution Manual
 - Setting Reading Goals Elasticity Timoshenko Solution Manual
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Elasticity Timoshenko Solution Manual
 - Fact-Checking eBook Content of Elasticity Timoshenko Solution Manual
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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web dec 15 2016 social studies assessments particularly those written to test the history or economic related standards allow teachers to assess the full range of a student s depth of knowledge dok of the content area considering level 1 through 4 dok question stems for social studies can help teachers better pinpoint student understanding and where

depth of knowledge 4 dok levels proven prodigy education - Aug 15 2023

web aug 8 2022 level 1 dok despite a question s simplicity you can still provide your class with many activities having them finish a range of products depending on the question s purpose students can paraphrase a passage or chapter of a book outline and re iterate the main points of a recent lesson

depth of knowledge sample questions study com - Feb 09 2023

web dok 1 recall and reproduce dok 2 basic application of skills and concepts dok 3 strategic reasoning dok 4 extended reasoning the questions you can ask in each strand are easy to

depth of knowledge for kindergarten and first grade - Jan 08 2023

web description this circular poster is based on webb s depth of knowledge which provides a vocabulary and a frame of reference when thinking about our students and how they engage with the content dok offers a common language to understand rigor or cognitive demand in assessments as well as curricular units lessons and tasks

assessing standards by depth of knowledge sis for teachers - Mar 10 2023

web apr 19 2019 they soon discovered that there weren t very many dok 4 questions those are really high level tasks some of them needed hints they noticed that there weren t any dok level 3 questions in kindergarten a lot of them had trouble deciding if the questions was a 2 or a 3

depth of knowledge matrix 3rd grade robert kaplinsky - Mar 30 2022

web dec 3 2019 each column explores one of eight topics rounding adding 3 digit numbers subtracting 3 digit numbers multiplying multiples of ten fractions on a number line multiplying and dividing within 100 operations with time and area and perimeter you ll notice that the first problem in the column is traditional and familiar

using webb s depth of knowledge dok to make your class - Sep 04 2022

web dok level 4 extended thinking this is the most advanced stage of the depth of knowledge framework and involves students making a significant cognitive effort it encourages students to gather information from multiple resources to solve a specific problem it also motivates them to know the how and why of things

depth of knowledge dok levels windham schools org - Sep 16 2023

web dok level 3 requires higher cognitive demands than the previous levels students explain justify thinking and provide supporting evidence for reasoning or conclusions drawn level 3 tasks typically require reasoning complexity developing a plan or sequence of steps and have more than one possible response or solution

depth of knowledge dok leveled questioning - Jun 13 2023

web 1 how will you plan to use this in your classroom during whole group or small group instruction and why 2 when do you see the need to use dok question level 3 and dok question level 4 in your classroom 3 looking at your content and standard s objectives create 3 4 questions using dok level 3 and dok level 4

