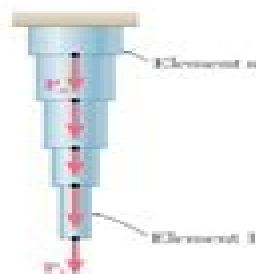


MECHANICS OF MATERIALS BEER JOHNSTON DEWOLF MAZUREK 6TH

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PROBLEM 1.C1

A solid steel rod consisting of n cylindrical elements welded together is subjected to the loading shown. The diameter of element i is denoted by d_i and the load applied to its lower end by P_i with the magnitude P_i of this load being assumed positive if P_i is directed downward as shown and negative otherwise. (a) Write a computer program that can be used with either SI or U.S. customary units to determine the average stress in each element of the rod. (b) Use this program to solve Problems 1.1 and 1.3.

SOLUTION

Force in element i :

It is the sum of the forces applied to that element and all lower ones:

$$F_i = \sum_{k=i}^n P_k$$

Average stress in element i :

$$\text{Area} = A_i = \frac{1}{4} \pi d_i^2$$

$$\text{Ave. stress} = \frac{F_i}{A_i}$$

Program outputs:

Problem 1.1	
Element	Stress (MPa)
1	84.883
2	-96.766

Problem 1.3	
Element	Stress (ksi)
1	22.635
2	17.927

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Jicheng Xie



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Table of Contents Mechanics Materials Beer 6th Edition Solutions Manual

1. Understanding the eBook Mechanics Materials Beer 6th Edition Solutions Manual
 - The Rise of Digital Reading Mechanics Materials Beer 6th Edition Solutions Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Mechanics Materials Beer 6th Edition Solutions 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 Mechanics Materials Beer 6th Edition Solutions Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mechanics Materials Beer 6th Edition Solutions Manual
 - Personalized Recommendations
 - Mechanics Materials Beer 6th Edition Solutions Manual User Reviews and Ratings
 - Mechanics Materials Beer 6th Edition Solutions Manual and Bestseller Lists
5. Accessing Mechanics Materials Beer 6th Edition Solutions Manual Free and Paid eBooks
 - Mechanics Materials Beer 6th Edition Solutions Manual Public Domain eBooks
 - Mechanics Materials Beer 6th Edition Solutions Manual eBook Subscription Services
 - Mechanics Materials Beer 6th Edition Solutions Manual Budget-Friendly Options

6. Navigating Mechanics Materials Beer 6th Edition Solutions Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Mechanics Materials Beer 6th Edition Solutions Manual Compatibility with Devices
 - Mechanics Materials Beer 6th Edition Solutions Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mechanics Materials Beer 6th Edition Solutions Manual
 - Highlighting and Note-Taking Mechanics Materials Beer 6th Edition Solutions Manual
 - Interactive Elements Mechanics Materials Beer 6th Edition Solutions Manual
8. Staying Engaged with Mechanics Materials Beer 6th Edition Solutions Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mechanics Materials Beer 6th Edition Solutions Manual
9. Balancing eBooks and Physical Books Mechanics Materials Beer 6th Edition Solutions Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mechanics Materials Beer 6th Edition Solutions Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mechanics Materials Beer 6th Edition Solutions Manual
 - Setting Reading Goals Mechanics Materials Beer 6th Edition Solutions Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mechanics Materials Beer 6th Edition Solutions Manual
 - Fact-Checking eBook Content of Mechanics Materials Beer 6th Edition Solutions 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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