

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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problems the text employs the following pedagogical strategy Practical applications are introduced early New concepts are introduced simply Fundamental principles are placed in simple contexts Students are given extensive practice through sample problems special sections entitled Solving Problems on Your Own extensive homework problem sets review problems at the end of each chapter and computer problems designed to be solved with computational software Resources Supporting This Textbook Instructor s and Solutions Manual features typeset one per page solutions to the end of chapter problems It also features a number of tables designed to assist instructors in creating a schedule of assignments for their course The various topics covered in the text have been listed in Table I and a suggested number of periods to be spent on each topic has been indicated Table II prepares a brief description of all groups of problems Sample lesson schedules are shown in Tables III IV and V together with various alternative lists of assigned homework problems For additional resources related to users of this SI edition please visit <http://www.mheducation.com> beerjohnston McGraw Hill Connect Engineering a web based assignment and assessment platform is available at <http://www.mhhe.com/beerjohnston> and includes algorithmic problems from the text Lecture PowerPoints an image bank and animations Hands on Mechanics is a website designed for instructors who are interested in incorporating three dimensional hands on teaching aids into their lectures Developed through a partnership between the McGraw Hill Engineering Team and the Department of Civil and Mechanical Engineering at the United States Military Academy at West Point this website not only provides detailed instructions for how to build 3 D teaching tools using materials found in any lab or local hardware store but also provides a community where educators can share ideas trade best practices and submit their own original demonstrations for posting on the site Visit <http://www.hands-on-mechanics.com> McGraw Hill Tegrity a service that makes class time available all the time by automatically capturing every lecture in a searchable format for students to review when they study and complete assignments To learn more about Tegrity watch a 2 minute Flash demo at <http://tegritycampus.mhhe.com>

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Table of Contents Mechanics Of Materials 6th Edition Beer Johnston Solution Manual

1. Understanding the eBook Mechanics Of Materials 6th Edition Beer Johnston Solution Manual
 - The Rise of Digital Reading Mechanics Of Materials 6th Edition Beer Johnston Solution Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Mechanics Of Materials 6th Edition Beer Johnston 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 Mechanics Of Materials 6th Edition Beer Johnston Solution Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mechanics Of Materials 6th Edition Beer Johnston Solution Manual

- Personalized Recommendations
- Mechanics Of Materials 6th Edition Beer Johnston Solution Manual User Reviews and Ratings
- Mechanics Of Materials 6th Edition Beer Johnston Solution Manual and Bestseller Lists
- 5. Accessing Mechanics Of Materials 6th Edition Beer Johnston Solution Manual Free and Paid eBooks
 - Mechanics Of Materials 6th Edition Beer Johnston Solution Manual Public Domain eBooks
 - Mechanics Of Materials 6th Edition Beer Johnston Solution Manual eBook Subscription Services
 - Mechanics Of Materials 6th Edition Beer Johnston Solution Manual Budget-Friendly Options
- 6. Navigating Mechanics Of Materials 6th Edition Beer Johnston Solution Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Mechanics Of Materials 6th Edition Beer Johnston Solution Manual Compatibility with Devices
 - Mechanics Of Materials 6th Edition Beer Johnston Solution Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mechanics Of Materials 6th Edition Beer Johnston Solution Manual
 - Highlighting and Note-Taking Mechanics Of Materials 6th Edition Beer Johnston Solution Manual
 - Interactive Elements Mechanics Of Materials 6th Edition Beer Johnston Solution Manual
- 8. Staying Engaged with Mechanics Of Materials 6th Edition Beer Johnston Solution Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mechanics Of Materials 6th Edition Beer Johnston Solution Manual
- 9. Balancing eBooks and Physical Books Mechanics Of Materials 6th Edition Beer Johnston Solution Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mechanics Of Materials 6th Edition Beer Johnston Solution Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mechanics Of Materials 6th Edition Beer Johnston Solution Manual
 - Setting Reading Goals Mechanics Of Materials 6th Edition Beer Johnston Solution Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mechanics Of Materials 6th Edition Beer Johnston Solution Manual

- Fact-Checking eBook Content of Mechanics Of Materials 6th Edition Beer Johnston 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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