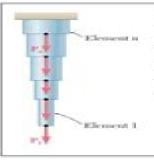
## MECHANICS OF MATERIALS BEER JOHNSTON DEWOLF MAZUREK 6<sup>TH</sup>

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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 /:

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

$$F_i = \sum_{k=1}^{i} P_k$$

Average stress in element i:

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

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

Program outputs:

Problem L.L

Element	Stress (MPa)
1	84.883
2.	-96.766

Problem 1.3

Element	Stress (ksi)
-1	22.635
2	17.927

O García

Mechanics of Materials Ferdinand Beer, Jr. Johnston, E. Russell, John DeWolf, David Mazurek, 2011-01-04 Beer and Johnston's Mechanics of Materials is the uncontested leader for the teaching of solid mechanics Used by thousands of students around the globe since its publication in 1981 Mechanics of Materials provides a precise presentation of the subject illustrated with numerous engineering examples that students both understand and relate to theory and application The tried and true methodology for presenting material gives your student the best opportunity to succeed in this course From the detailed examples to the homework problems to the carefully developed solutions manual you and your students can be confident the material is clearly explained and accurately represented If you want the best book for your students we feel Beer Johnston's Mechanics of Materials 6th edition is your only choice Loose Leaf Version for Mechanics of Materials John DeWolf, David Mazurek, Jr. Johnston, E. Russell, Ferdinand Beer, 2011-01-06 Beer and Johnston's Mechanics of Materials is the uncontested leader for the teaching of solid mechanics Used by thousands of students around the globe since its publication in 1981 Mechanics of Materials provides a precise presentation of the subject illustrated with numerous engineering examples that students both understand and relate to theory and application. The tried and true methodology for presenting material gives your student the best opportunity to succeed in this course From the detailed examples to the homework problems to the carefully developed solutions manual you and your students can be confident the material is clearly explained and accurately represented If you want the best book for your students we feel Beer Johnston's Mechanics of Materials 6th edition is your only choice Scientific and Technical Books and Serials in Print ,1989 Instructor's and Solutions Manual to Accompany Mechanics of Materials, Third Edition, Ferdinand P. Beer, E. Russell Johnston, Jr., John T. DeWolf: Chapters 1-6,2002 **Books in Print Supplement**, 1984 **Canadian Books in Print** ,1995 **Engineering Education**, 1986 **Technical Books in Print** ,1974 Scientific and Technical Books in **Print** .1972 The Publishers' Trade List Annual .1979 Canadiana .1982 Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office, 1964 Includes Part 1 Number 1 Books and Pamphlets Including Serials and Contributions to Periodicals January June Incorporating Sustainable Practice in Mechanics and Structures of Materials Sam Fragomeni, Srikanth Venkatesan, 2010-11-18 Incorporating Sustainable Practice in Mechanics of Structures and Materials is a collection of peer reviewed papers presented at the 21st Australasian Conference on the Mechanics of Structures and Materials ACMSM21 Victoria University Melbourne Australia 7th 10th of December 2010 The contributions from academics researchers and practisin **Subject Guide to Books in Print** ,1984 **EBOOK: Vector Mechanics for Engineers: Dynamics (SI)** Ferdinand Beer, E. Johnston, Phillip Cornwell, 2013-04-16 Continuing in the spirit of its successful previous editions the tenth edition of Beer Johnston Mazurek and Cornwell's Vector Mechanics for Engineers provides conceptually accurate and thorough coverage together with a significant refreshment of the exercise sets and online delivery

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