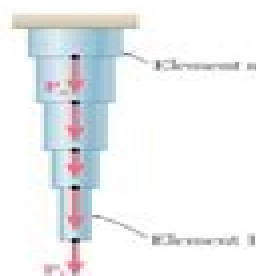


MECHANICS OF MATERIALS BEER JOHNSTON DEWOLF MAZUREK 6TH

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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

Mechanics Of Materials 6th Beer Solution

CO Houle

A decorative red circular graphic with a gradient, appearing as a semi-circle or a stylized arrow pointing to the right, located to the right of the 'CO Houle' text.

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In a global inundated with monitors and the cacophony of instantaneous transmission, the profound energy and emotional resonance of verbal artistry often disappear in to obscurity, eclipsed by the regular barrage of noise and distractions. Yet, set within the lyrical pages of **Mechanics Of Materials 6th Beer Solution**, a fascinating work of literary beauty that pulses with natural feelings, lies an memorable trip waiting to be embarked upon. Composed with a virtuoso wordsmith, that enchanting opus courses viewers on a mental odyssey, delicately exposing the latent potential and profound impact stuck within the complex web of language. Within the heart-wrenching expanse of this evocative examination, we will embark upon an introspective exploration of the book is key themes, dissect their interesting publishing type, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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