

# 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 $i$ :

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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