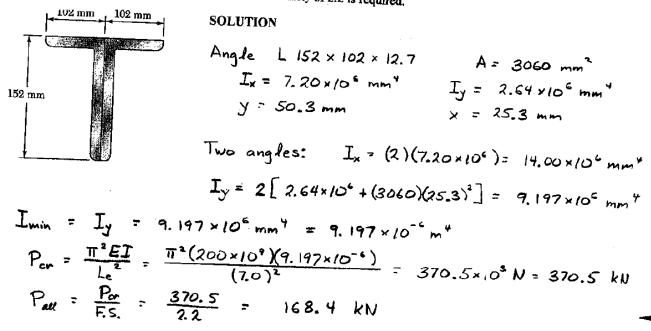
## **Column and Struts Buckling Examples**

## Example 1

A compression member of 7-m effective length is made by welding together two L152  $\times$  102  $\times$  12.7 angles as shown. Using R = 200 GPa, determine the allowable centric load for the member if a factor of safety of 2.2 is required.



(Note that L<sub>e</sub> here referes to the effective length)

## Example 2

Knowing that P = 5.2 kN, determine the factor of safety for the structure shown. Use E = 200 GPa and consider only buckling in the plane of the structure.

## SOLUTION

