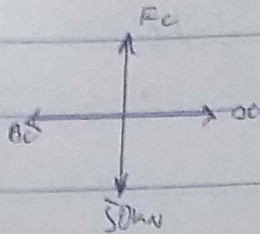


Always Always 0  
17/11/2020

At joint C  $\Rightarrow$



from previous calculated example,

$$BC = 50 \text{ kN}$$

$$\therefore -BC + OC = 0 \quad (\text{Resolving to horizontal})$$

$$-50 + OC = 0$$

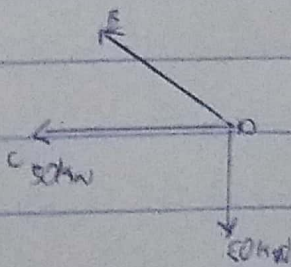
$$OC = 50 \text{ kN (compressive)}$$

Resolving to vertical

$$\Rightarrow -50 \text{ kN} + FC = 0$$

$$FC = 50 \text{ kN (Tensional)}$$

At joint D



$$\text{Resolving to horizontal} = -50 \text{ kN} - DE \cos 45 = 0$$

$$50 \text{ kN} = -DE \cos 45$$



DE = 50 = -70.7  
 - (0.545)

DE = 70.7 compression

MEMBER	P (kN)	l (m)	a (cm <sup>2</sup> )	$P = \frac{P}{a}$ (kN/cm <sup>2</sup> )	$\mu$	PUL
AF	-70.71	4.24	0.0004	-176775	-0.471	353026.95
AB	50	3	0.0004	125000	0.333	424875
BC	50	3	0.0004	125000	0.666	85250 <del>85250</del>
BF	50	3	0.0004	125000	0.333	124875 <del>124875</del>
FE	50	3	0.0004	125000	-0.333	-124875 <del>41625</del>
BE	0	4.24	0.0004	<del>125000</del> 0	-0.471	0 375000
EC	50	3	0.0004	125000	1.000	<del>125000</del>
ED	-70.71	4.24	0.0004	-176775	-0.942	706053.492
CD	50	3	0.0004	125000	0.666	249750
			<del>0.0004</del>			$\Sigma = 2058455.24$

$\frac{\Sigma PUL}{E} = \frac{2058455.24}{200000} = 10.2922762$