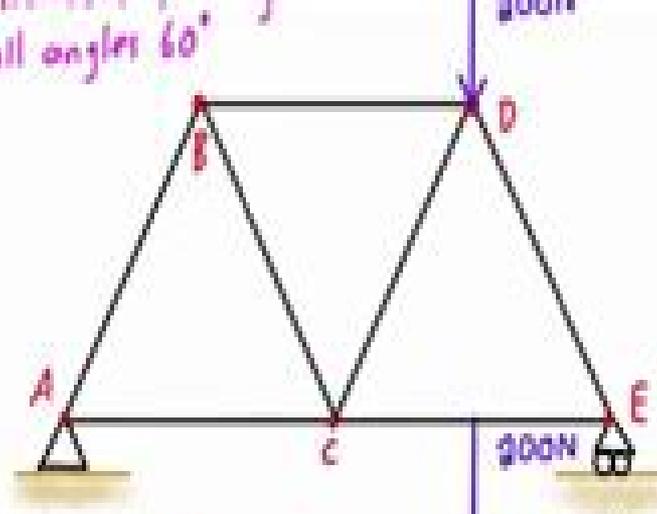


∴ all angles 60°



$$\sum F_x = A_x = 0$$

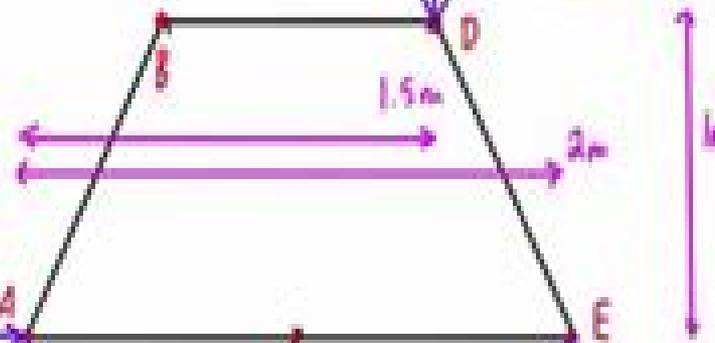
$$\sum F_y = -200N + A_y + E_y = 0$$

$$\sum M_A = -200(1.5) + E_y(2) = 0$$

$$E_y = \frac{300}{2} = 150N \uparrow$$

$$A_y = 50N \uparrow$$

FBD



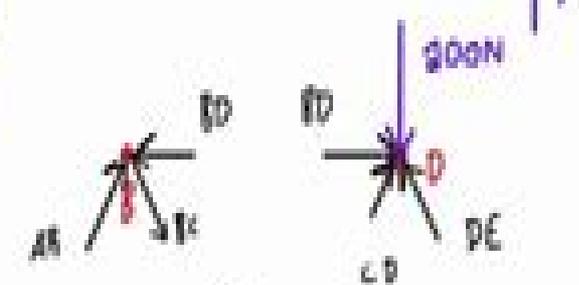
$$\sum F_y = 50N + AB \sin 60 = 0$$

$$AB = \frac{-50}{0.866} = -57.7N (c)$$

$$\sum F_x = -57.7 \cos 60 + AC = 0$$

$$AC = 28.85N (T)$$

FBD

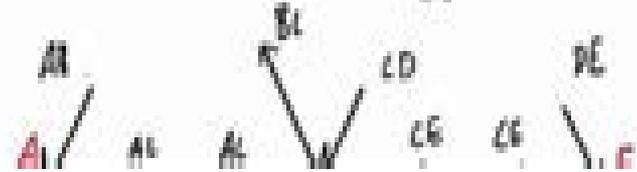


$$F_y = 57.7 \sin 60 - BC \sin 60 = 0$$

$$BC = 57.7N (T)$$

$$F_x = 57.7 \cos 60 + 57.7 \cos 60 + BD = 0$$

$$BD = -57.7N (c)$$



$$F_y = 57.7 \sin 60 + CD \sin 60 = 0$$

$$CD = -57.7N (c)$$

An Equivalent Truss Method For The Analysis Of Timber

Ernest McCullough



An Equivalent Truss Method For The Analysis Of Timber:

Decoding **An Equivalent Truss Method For The Analysis Of Timber**: Revealing the Captivating Potential of Verbal Expression

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web for flanges with 12 or more bolts 1 st round 20 percent of final torque 2 nd round 40 percent of final torque 3 rd round 80 percent of final torque 4 th round 100 percent of final torque final round clockwise or counter clockwise around the flange please take note the above bolt tightening sequences are the most

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web ensure the bolt lengths allow for a minimum of 2 3 threads protruding beyond the top of the nut when tightened bolts must be tightened according to the below sequence options assemble bolts hand tight maximum 30 of final tightening torque as per below cross pattern sequences

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web step 1 liberally lubricate all load bearing surfaces including threads and flat washers then install and finger tighten all fasteners number the bolts flange according to the bolt torque sequence step 2 set the torque wrench to 1 3 of the target torque value and tighten in an order bolts 1 2 3 4 until all have been tightened

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