

Homework Problem H2.B

Given: Tension forces \vec{F}_{BO} and \vec{F}_{BH} act on a three-dimensional frame at point B.

Find:

- Determine the unit vector and force vector for \vec{F}_{BO} .
- Determine the unit vector and force vector for \vec{F}_{BH} .
- Calculate the direction angles and direction cosines for \vec{F}_{BH} .

Use the following parameter values in your analysis: $F_{BO} = 200$ lb, $F_{BH} = 350$ lb, $b = 6$ ft, $d = 4$ ft, $v = 10$ ft and $h = 8$ ft.

Fig. PH02B.M270

