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•2-97. The door is held open by means of two chains. If the tension in AB and CD is $F_{AB} = 300 \text{ N}$ and $F_{CD} = 250 \text{ N}$, respectively, express each of these forces in Cartesian vector form.

Given Vector: First determine the position vector r_{AB} and r_{CD} . The coordinates of points A and C are

$$A(10, -(1 + 1.5 \sin 30^\circ), 1.5 \sin 30^\circ) \text{ m} = A(10, -2.25, 0.75) \text{ m}$$

$$C(-2.5, -(1 + 1.5 \sin 30^\circ), 1.5 \sin 30^\circ) \text{ m} = C(-2.5, -2.25, 0.75) \text{ m}$$

Then

$$r_{AB} = (10 - 0)\mathbf{i} + (0 - (-2.25))\mathbf{j} + (0 - 0.75)\mathbf{k} \text{ m}$$

$$= (1.25\mathbf{j} - 0.75\mathbf{k}) \text{ m}$$

$$r_{AB} = \sqrt{1.25^2 + (-0.75)^2} = 1.418 \text{ m}$$

$$u_{AB} = \frac{r_{AB}}{r_{AB}} = \frac{1.25\mathbf{j} - 0.75\mathbf{k}}{1.418} = 0.8807\mathbf{j} - 0.5300\mathbf{k}$$

$$r_{CD} = (1 - 0)\mathbf{i} + (-2.5 - (-2.25))\mathbf{j} + (0 - 0.75)\mathbf{k} \text{ m}$$

$$= (-0.25\mathbf{j} - 0.75\mathbf{k}) \text{ m}$$

$$r_{CD} = \sqrt{0.0625 + 0.5625} = 0.75 \text{ m}$$

$$u_{CD} = \frac{r_{CD}}{r_{CD}} = \frac{-0.25\mathbf{j} - 0.75\mathbf{k}}{0.75} = -0.3333\mathbf{j} - 1.0000\mathbf{k}$$

Force Vector:

$$F_A = F_{AB} u_{AB} = 300(0.8807\mathbf{j} - 0.5300\mathbf{k}) \text{ N}$$

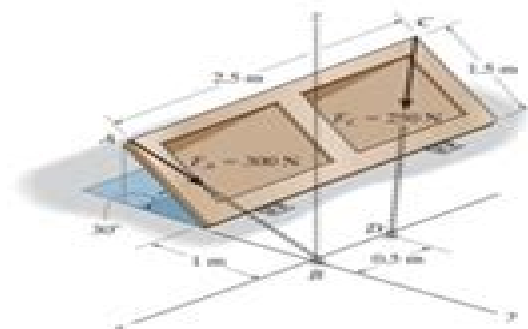
$$= (264.21\mathbf{j} - 159.00\mathbf{k}) \text{ N}$$

$$= (264\mathbf{j} - 159\mathbf{k}) \text{ N} \quad \text{Ans}$$

$$F_C = F_{CD} u_{CD} = 250(-0.3333\mathbf{j} - 1.0000\mathbf{k}) \text{ N}$$

$$= (-83.33\mathbf{j} - 250.00\mathbf{k}) \text{ N}$$

$$= (-83\mathbf{j} - 250\mathbf{k}) \text{ N} \quad \text{Ans}$$



2-98. The guy wires are used to support the telephone pole. Represent the force in each wire in Cartesian vector form. Neglect the diameter of the pole.

Given Vector:

$$r_{AD} = (0 - 1 - 0)\mathbf{i} + (4 - 0)\mathbf{j} + (0 - 0)\mathbf{k} \text{ m} = (-1\mathbf{i} + 4\mathbf{j} - 0\mathbf{k}) \text{ m}$$

$$r_{AD} = \sqrt{(-1)^2 + 4^2 + (-0)^2} = 4.123 \text{ m}$$

$$u_{AD} = \frac{r_{AD}}{r_{AD}} = \frac{-1\mathbf{i} + 4\mathbf{j} - 0\mathbf{k}}{4.123} = -0.2425\mathbf{i} + 0.9747\mathbf{j} - 0.0000\mathbf{k}$$

$$r_{BD} = (1 - 1 - 0)\mathbf{i} + (3 - 0)\mathbf{j} + (0 - 3)\mathbf{k} \text{ m} = (0\mathbf{i} + 3\mathbf{j} - 3\mathbf{k}) \text{ m}$$

$$r_{BD} = \sqrt{0^2 + 3^2 + (-3)^2} = 4.243 \text{ m}$$

$$u_{BD} = \frac{r_{BD}}{r_{BD}} = \frac{0\mathbf{i} + 3\mathbf{j} - 3\mathbf{k}}{4.243} = 0.7071\mathbf{j} - 0.7071\mathbf{k}$$

Force Vector:

$$F_A = F_{AD} u_{AD} = 250(-0.2425\mathbf{i} + 0.9747\mathbf{j} - 0.0000\mathbf{k}) \text{ N}$$

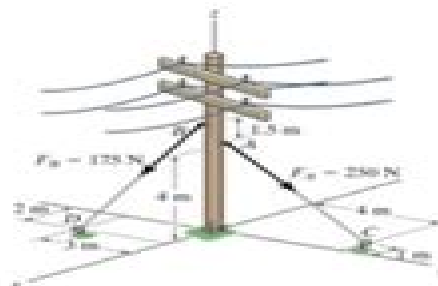
$$= (-60.63\mathbf{i} + 243.68\mathbf{j} - 0.00\mathbf{k}) \text{ N}$$

$$= (-61\mathbf{i} + 244\mathbf{j} - 0\mathbf{k}) \text{ N} \quad \text{Ans}$$

$$F_B = F_{BD} u_{BD} = 175(0.7071\mathbf{j} - 0.7071\mathbf{k}) \text{ N}$$

$$= (123.74\mathbf{j} - 123.74\mathbf{k}) \text{ N}$$

$$= (124\mathbf{j} - 124\mathbf{k}) \text{ N} \quad \text{Ans}$$



Hibbeler Statics 12th Edition

RC Schank



Hibbeler Statics 12th Edition:

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