


## PROBLEM 4.99

The $45-\mathrm{lb}$ square plate shown is supported by three vertical wires. Determine the tension in each wire.


Ans. $T_{A E}=2.80 \mathrm{kN}$


Ans. (a) $T=49.5 \mathrm{lb}$ (b) $\boldsymbol{A}=-12.0 \mathbf{i}+22.5 \mathbf{j}-4.0 \mathbf{k} \mathbf{l b}, \boldsymbol{B}=15.0 \mathbf{j}+34.0 \mathbf{k} \mathrm{lb}$


## PROBLEM 4.118

The bent $\operatorname{rod} A B E F$ is supported by bearings at $C$ and $D$ and by wire $A H$. Knowing that portion $A B$ of the rod is 250 mm long, determine (a) the tension in wire $A H,(b)$ the reactions at $C$ and $D$. Assume that the bearing at $D$ does not exert any axial thrust.

