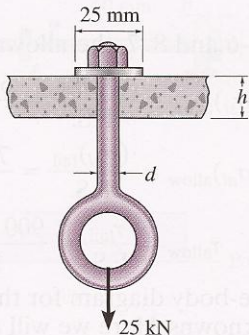


8-37. The eye bolt is used to support the load of 25 kN. Determine its diameter d to the nearest multiples of 2 mm and the required thickness h to the nearest multiples of 2 mm of the support so that the washer will not penetrate or shear through it. The allowable normal stress for the bolt is $\sigma_{\text{allow}} = 150 \text{ MPa}$ and the allowable shear stress for the supporting material is $\tau_{\text{allow}} = 35 \text{ MPa}$.



Prob. 8-37