



$$\sum \tau = 0 \quad \tau = F_{\perp} r$$

$$\sum \tau = F_t d_t - W_{rod} \frac{L}{2} - W_p d_p$$

$$0 = m_t g d_t - m_{rod} g \frac{L}{2} - m_p g d_p$$

$$0 = m_t d_t - m_{rod} \frac{L}{2} - m_p d_p$$

Solve for m_t ; this is the theoretical mass at the tendon.