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If the material is elastic plastic, show that the torque can be expressed in terms of the angle of twist ϕ of the shaft as $T = 43 \text{ TY}^{11} - f_3 \text{Y} \text{>4f32}$, where TY and $f_3 \text{Y}$ are the torque and angle of twist when the material

begins to yield. $\sigma_L = L r r_Y f = r_Y = \sigma_Y L f$ (1) When $r_Y = c$, $f = f_Y$ From Eq.

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