

Chapter 5

5-1 $S_y = 350 \text{ MPa}$

MSS: $\sigma_1 - \sigma_3 = S_y / n \quad \Rightarrow \quad n = \frac{S_y}{(\sigma_1 - \sigma_3)}$

DE: $\sigma' = (\sigma_x^2 - \sigma_x \sigma_y + \sigma_y^2)^{1/2} = (\sigma_x^2 - \sigma_x \sigma_y + \sigma_y^2 + 3\tau_{xy}^2)^{1/2}$
 $n = \frac{S_y}{\sigma'}$

(a) MSS: $\sigma_1 = 100 \text{ MPa}, \sigma_2 = 100 \text{ MPa}, \sigma_3 = 0$

$n = \frac{350}{100 - 0} = 3.5 \quad \text{Ans.}$

DE: $\sigma' = (100^2 - 100(100) + 100^2)^{1/2} = 100 \text{ MPa}, \quad n = \frac{350}{100} = 3.5 \quad \text{Ans.}$

(b) MSS: $\sigma_1 = 100 \text{ MPa}, \sigma_2 = 50 \text{ MPa}, \sigma_3 = 0$

$n = \frac{350}{100 - 0} = 3.5 \quad \text{Ans.}$

DE: $\sigma' = (100^2 - 100(50) + 50^2)^{1/2} = 86.6 \text{ MPa}, \quad n = \frac{350}{86.6} = 4.04 \quad \text{Ans.}$

(c) $\sigma_A, \sigma_B = \frac{100}{2} \pm \sqrt{\left(\frac{100}{2}\right)^2 + (-75)^2} = 140, -40 \text{ MPa}$

$\sigma_1 = 140, \sigma_2 = 0, \sigma_3 = -40 \text{ MPa}$

MSS: $n = \frac{350}{140 - (-40)} = 1.94 \quad \text{Ans.}$

DE: $\sigma' = [100^2 + 3(-75^2)]^{1/2} = 164 \text{ MPa}, \quad n = \frac{350}{164} = 2.13 \quad \text{Ans.}$

(d) $\sigma_A, \sigma_B = \frac{-50 - 75}{2} \pm \sqrt{\left(\frac{-50 + 75}{2}\right)^2 + (-50)^2} = -11.0, -114.0 \text{ MPa}$

$\sigma_1 = 0, \sigma_2 = -11.0, \sigma_3 = -114.0 \text{ MPa}$

MSS: $n = \frac{350}{0 - (-114.0)} = 3.07 \quad \text{Ans.}$

DE: $\sigma' = [(-50)^2 - (-50)(-75) + (-75)^2 + 3(-50)^2]^{1/2} = 109.0 \text{ MPa}$

$n = \frac{350}{109.0} = 3.21 \quad \text{Ans.}$

(e) $\sigma_A, \sigma_B = \frac{100 + 20}{2} \pm \sqrt{\left(\frac{100 - 20}{2}\right)^2 + (-20)^2} = 104.7, 15.3 \text{ MPa}$

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