

7.30 Determine the stress required for crack propagation under plane strain for a crack length equal to 2 mm in aluminum. Take the surface energy equal to 0.018 J/m^2 , Poisson's ratio to be 0.345, and the modulus of $E = 70.3 \text{ GPa}$.

Solution

$$\gamma = 0.018 \frac{\text{J}}{\text{m}^2}$$

$$E = 70.3 \text{ GPa}$$

$$\nu = 0.345$$

$$a = 2 \times 10^{-3} \times \frac{1}{2} = 1 \times 10^{-3} \text{ m}$$

$$\sigma_c = \sqrt{\frac{2E\gamma}{\pi a(1-\nu^2)}}$$

$$\sigma_c = \sqrt{\frac{2(70.3 \times 10^9)(0.018)}{1 \times 10^{-3} \times \pi \times (1 - 0.345^2)}}$$

$$\sigma_c = 954.2 \text{ kPa}$$

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