

Fracture Toughness

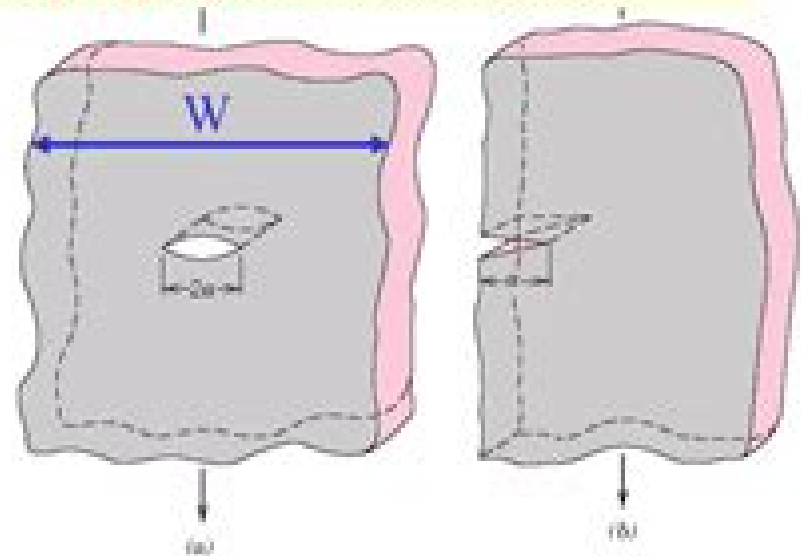
Fracture Toughness, K_c is a critical value of stress intensity factor, K , upon which **fracture** will occur.

K_c measures the *resistance to crack propagation* and failure

- When stress level reaches some critical level, σ_c , have **crack propagation and fracture**
- critical stress intensity factor, K_c , at the crack tip exists:

$$K_c = Y(a/W) \sigma_c \sqrt{\pi a}$$

Y is a function of a (crack length) and W (component width)



Geometric Factor

a) $Y(a/W) = 1$ (infinite plate)

b) $Y(a/W) \approx 1.1$ (semi-infinite plate)

Mechanics Of Frature

Kathleen Armour



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