

Mechanical Behavior Of Materials Dowling Solutions Manual

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7.43

- (a) An AISI steel plate has width W = 30 cm and a central crack with size of 3 mm. The plate is under a uniform stress. Find the maximum value of the stress is KIc = 50 MPa m1/2.
- (b) If the part has to operate at a stress of 1,500 MPa, compute the maximum crack size that the plate can have.

Solutions:

$$W = 30cm = 0.3m$$

$$2a = 3mm \Rightarrow a = 1.5mm = 0.0015m$$

$$K_{IC} = 50MPa*m^{1/2} = 50*10^6 Pa*m^{1/2}$$

(a) use 
$$Kx = Y\sigma\sqrt{\pi a}$$
 use Y=1 since W>>a

$$\sigma = \frac{K_{IC}}{Y\sqrt{\pi a}} = \frac{50*10^6 Pa*m^{1/2}}{1\sqrt{\pi(0.0015)}} = 728MPa$$

$$\sigma = 1,500MPa$$

$$K_{IC} = Y \sigma \sqrt{\pi a}$$

$$a = \frac{1}{\pi} \left( \frac{K_{IC}}{Y_{C}} \right)^{2} = \frac{1}{\pi} \left( \frac{50*10^{6} Pa*m^{1/2}}{(1*1500*10^{6} Pa)} \right)^{2} = 3.5*10^{-4} m$$

$$cracksize = 2*a = 2*3.5*10^{-4} = 7.0*10^{-4}$$

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However, if for any reason the reason for termination of the class is listed below in subdivision 14.. 2 c can not be enforced in relation to any or all of the dispute, the arbitration agreement shall not apply to this dispute or part of it.

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