

TOPIC

Materials – Section IX - Question 6

QUESTION

Stress concentration factor is

- (A) independent of the crack length and geometry
- (B) higher for steel than for aluminum
- (C) higher for the long sharp cracks than for the short blunt cracks
- (D) all of the above

HINT

Stress concentration factor is material independent.

SOLUTION

Stress concentration factor is proportional to the square root of the crack length to the crack tip radius ratio.

ANSWER

(C)

CONTRIBUTOR

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