

**TOPIC**

Materials – Section IX – Question 5

**QUESTION**

When plastically deformed, strain hardening causes metals to become

- (A) softer
- (B) harder
- (C) transparent
- (D) smoother

**HINT**

Strain hardening increases dislocation density.

**SOLUTION**

Metals tend to harden due to increased dislocations density during plastic deformation, a process called strain hardening.

**ANSWER**

(B)

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*This question of the day was provided by the courtesy of Professor [Alex Volinsky](#) of the [University of South Florida](#) from the book [Fundamentals of Engineering Examination Sample Questions General Engineering](#).*