

M17 Concept Question 1

Given that dislocations are the underlying mechanism of yield in metals. Which of the following strategies would be most likely to cause an increase in the yield strength of a metal:

1. Increasing the modulus of the material
2. Increasing the melting temperature
3. Increasing the resistance to dislocation motion
4. Reducing the density of dislocations in the material
5. Increasing the density of dislocations in the material
6. Some other answer
7. Do not know/do not understand