

16 Which group of statements applies only to the liquid state?

A

atoms separated by many atomic diameters
positions of atoms can change
atoms vibrate

B

atoms separated by many atomic diameters
atoms are in fixed positions
atoms are in continuous, random motion

C

atoms can touch each other
positions of atoms can change
some random motion of atoms

D

atoms can touch each other
atoms are in fixed positions
some random motion of atoms

17 A piece of copper is drawn into a continuous wire.

What behaviour is the copper exhibiting?

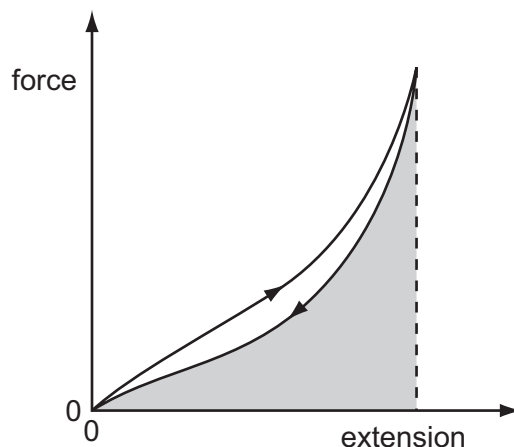
A brittle only

B elastic only

C plastic only

D both brittle and elastic

18 The force-extension graph of a particular sample of rubber as a load is applied and then removed is shown.



What does the shaded area represent?

A the energy transformed into heat during the complete cycle

B the recoverable elastic potential energy stored at maximum extension

C the work done on the sample while loading

D the work done on the sample while unloading