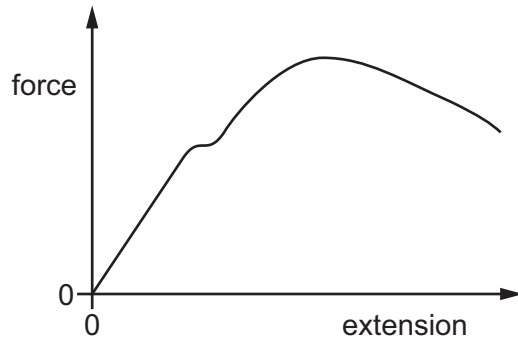


**21** The force–extension graph for a metal wire is shown.



Which quantity is represented by the area under the graph?

- A** power transferred to the wire
- B** temperature increase in the wire
- C** time taken for the wire to extend
- D** work done on the wire

**22** A piece of metal wire is stretched by a force. The force is then removed and the wire returns to its original length. The wire is said to be elastic.