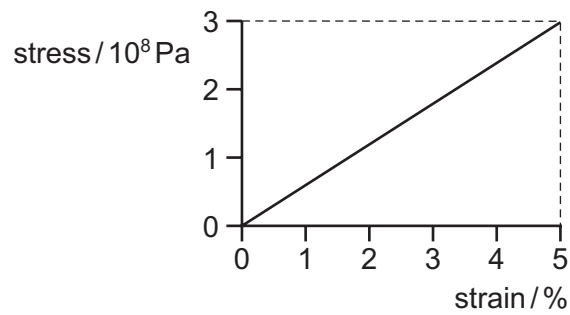


- 20 In stress-strain experiments on metal wires, the stress axis is often marked in units of 10^8 Pa and the strain axis is marked as a percentage. This is shown for a particular wire in the diagram.



What is the value of the Young modulus for the material of the wire?

- A** $6.0 \times 10^7 \text{ Pa}$ **B** $7.5 \times 10^8 \text{ Pa}$ **C** $1.5 \times 10^9 \text{ Pa}$ **D** $6.0 \times 10^9 \text{ Pa}$

Space for working