

- 2 The rate R of heat flow for conduction in a cylindrical conductor can be found using the equation

$$R = k A \frac{\Delta T}{L}$$

where k is the thermal conductivity, A is the cross sectional area, and L is the length of the conductor where its two ends are at temperatures T_1 and T_2 respectively.

What is the SI base units for k ?

- A** kg m s^{-3} **B** $\text{kg s}^{-2}\text{K}^{-1}$ **C** $\text{kg m s}^{-2}\text{K}^{-1}$ **D** $\text{kg m s}^{-3}\text{K}^{-1}$