

- 1 The energy E stored in a certain electronic component is given by

$$E = \frac{Q^n}{2k}$$

where Q is the total charge in the component, n is an unknown integer and k is a physical quantity with SI base units $A^2 s^4 kg^{-1} m^{-2}$.

What is the value of n ?

A -2

B -1

C 1

D 2