

Answer on Question 67395, Physics, Other

Question:

A spring is stretched 0.15 m by a force of 0.75 N . What is the spring constant of this spring?

Solution:

We can find the spring constant from the Hooke's law:

$$F = kx,$$

here, F is the force acting on the spring, k is the spring constant, x is the elongation of the spring.

Therefore, we get:

$$k = \frac{F}{x} = \frac{0.75\text{ N}}{0.15\text{ m}} = 5 \frac{\text{N}}{\text{m}}.$$

Answer:

$$k = 5 \frac{\text{N}}{\text{m}}.$$

Answer provided by <https://www.AssignmentExpert.com>