

18 A spring has an unstretched length of 4.50 cm. The spring is fixed at one end and a force of 35.0 N is applied to the other end so that the spring extends.

The spring obeys Hooke's law and has a spring constant of 420 N m^{-1} .

What is the strain of the extended spring?

A 0.019

B 0.083

C 1.85

D 2.67