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**Hooke S Law And Simple**

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The extension of an elastic object, such as a spring, is described by Hooke's law: force = spring constant  $\times$  extension  $[F = k \cdot e]$  This is when: force (F) is measured in newtons (N)

## **Hooke's law - Forces and elasticity - AQA - GCSE Combined ...**

It is a law of mechanics and physics discovered by Robert Hooke. This theory of elasticity says the extension of a spring is proportional to the load applied to it. Many materials obey this law as long as the load does not exceed the material's elastic limit. Materials for which Hooke's law is useful are known as linear-elastic or "Hookean" materials.

## **Hooke's law - Simple English Wikipedia, the free encyclopedia**

Hooke's law, law of elasticity discovered by the English scientist Robert Hooke in 1660, which states that, for relatively small deformations of an object, the displacement or size of the deformation is directly proportional to the deforming force or load. Under these conditions the object returns to its original shape and size upon removal of the load.

## **Hooke's law | Description & Equation | Britannica**

Hooke's Law and the phenomenon of simple harmonic motion help in understanding the physics associated with elastic objects. Hooke's Law implies that in order to deform an elastic object, like a slingshot, a force must be applied to overcome the restoring force exerted by that object.

## **Hooke's Law and Simple Harmonic Motion | Protocol**

Hooke's law may also be expressed in terms of stress and strain. Hooke's law in simple terms says that strain is directly proportional to stress. Objects that quickly regain their original shape after being deformed by a force, often obey Hooke's law. Hooke's law only holds for some materials under certain loading conditions.

## **Understanding Hooke's Law | Free Homework Help**

Hooke's Law Elastic force occurs in the spring when the spring is being stretched/compressed or deformed ( $x$ ) by the external force. Elastic force acts in the opposite direction of the external force. It tries to bring the deformed end of the spring to the original (equilibrium) position. See fig. 1.

## **Hooke's Law and Simple Harmonic Motion - WebAssign**

1. Do the data from Part 1 verify Hooke's Law? State clearly the evidence for your answer. The data correlate close to Hooke's Law, but not quite. The law states that  $F = -ky$ , where F is in this case Mg

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and  $y$  equals the negative displacement. After graphing forces versus displacement, a value of 3.53 N/m was determined as the spring constant.

### Hooke's Law and Simple Harmonic Motion – Adam Cap

Once such physical system where this force exists is with a common helical spring acting on a body. If the spring is stretched or compressed a small distance from its equilibrium position, the spring will exert a force on the body given by Hooke's Law, namely. (1) where is known as the spring force. Here the constant of proportionality,  $k$ , is the known as the spring constant, and  $x$  is the displacement of the body from its equilibrium position ( $x = 0$ ).

### 124 Physics Lab: Hooke's Law and Simple Harmonic Motion

The spring extended 5 mm each time a 10 g mass is added (which increased the force due to gravity by 0.1 N). This follows Hooke's Law which states that the extension of an elastic object (like a...

### Investigating Hooke's Law – Forces – KS3 Physics Revision ...

Therefore, in simple terms, Hooke's law states that the strain in a solid is proportional to the applied stress within the elastic limit of that solid.

### Hooke's Law – Definition, Equation, Formula, Stress and ...

One definition of simple harmonic motion (SHM) is that it is motion under a linear, "Hooke's Law" restoring force. For such a motion we have, from Newton's second law,  $F = -kx = ma$ . The minus sign appears since in this case the acceleration of the object in SHM is in the direction opposite to the force causing it.

### HOOKE'S LAW AND A SIMPLE SPRING

Hooke's law is a law of physics that states that the force ( $F$ ) needed to extend or compress a spring by some distance ( $x$ ) scales linearly with respect to that distance—that is,  $F = kx$ , where  $k$  is a constant factor characteristic of the spring (i.e., its stiffness), and  $x$  is small compared to the total possible deformation of the spring.

### Hooke's law – Wikipedia

Hooke's law is a dynamical principle for the force exerted by an elastic spring, as a function of how much it's been stretched or compressed relative to its equilibrium length. It's valid only for sufficiently small stretchings or compressi

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## **What is the main difference between Newton's law and Hooke ...**

Hooke's Law may be stated as  $F = kx$  (4) a and may be used to calculate the spring constant  $k$ . For equal displacements, the applied force and the restoring force are equal and opposite.

## **HOOKE'S LAW AND SIHIPLE HARMONIC MOTION BY DR**

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## **Hookes Law Worksheets - Teacher Worksheets**

Hooke's Law is a principle of physics that states that the that the force needed to extend or compress a spring by some distance is proportional to that distance. The law is named after 17th...

## **What is Hooke's Law? - Phys.org**

Hooke's Law In the diagram below is shown a block attached to a spring. In position (A) the spring is at rest and no external force acts on the block. In position (B) a force  $F$  is used to compress the spring by a length equal to  $x$  by pushing the block to the left.

## **Hooke's Law, Examples with solutions**

A mass at the end of a spring is an example of a system that obeys Hooke's Law. Give two other examples of systems that obey this law. The equation  $F = -ks$ , where  $k$  is a constant, is an expression for a law that governs the motion of a body.

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