

Elastic Forces and Hooke's Law

Many systems that exhibit elastic behavior only have their good approximations (ideal perfect systems) as described by Hooke's Law. The list of such systems is very long and varied – an elastic pendulum, a piston within your car's cylinder, a piston in a mechanical pump that drives the gas turbine in a jet engine, and numerous others composed of gas-filled pistons. Even including cells, most mechanical parts as well as living organisms that use the cytoskeleton need mechanical models that a spring system provides. Interestingly, the force required to stretch a single living polymer outside various conditions can provide information about the temperature depending on pH. Therefore, a basic introduction to spring and use as a simple example, with processes that occur in more complex systems.

Objectives

1. The test Hooke's Law by measuring the spring constant of a spring.
2. The test whether a material obeys Hooke's Law.
3. Explain the limits of the spring's behavior.

Introduction

A spring, when stretched or compressed by applied force, exerts a force that is proportional to the change in length according to Hooke's Third Law. Over a limited range of stretching and compression, the force exerted by a spring is directly proportional to the distance, x , the spring is stretched or compressed.

When this relationship holds, the spring is said to obey Hooke's Law:

$$F_{\text{spring}} = -kx \quad (1)$$

where k is the spring constant, a characteristic of the "stiffness" of the spring. The $-$ sign is because the force F_{spring} the spring exerts is always in the opposite direction of the stretch or compression. Thus, if the mass has a positive displacement (that is, the mass has pulled the spring to the right), the negative displacement and force mean the force the spring exerts is opposite to Hooke's Law. It must be noted that a graph of the F_{spring} versus x is a straight line passing through origin and the slope of the line equal to the spring constant.

When a mass is hung on a vertical spring, the weight of the mass balances the spring force, so:

$$mg = kx \quad (2)$$

where m is the mass, g is the acceleration of the spring and x is the displacement of the mass from the equilibrium position. This relationship of Eq. (2) allows us to determine the spring constant k when m , g and x are known or related measured.

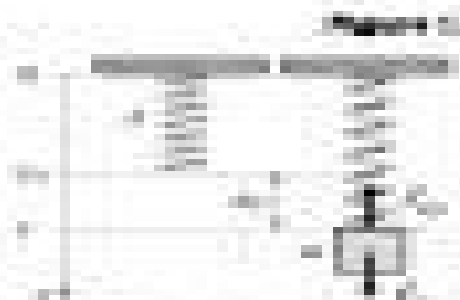


Figure 1.

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