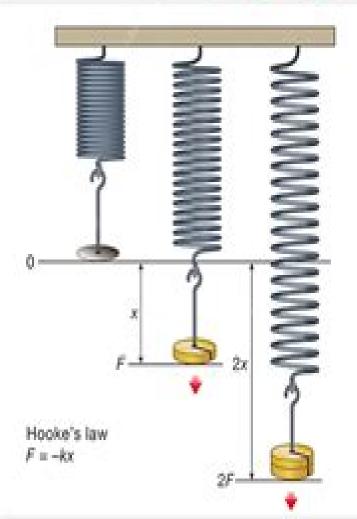
Hooke's Law



Hooke's Law describes the <u>elastic behavior of materials</u>. Formulated by Robert Hooke, it states that the force required to stretch or compress a spring is directly proportional to the elongation or compression, as long as the material's elastic limit is not exceeded. Mathematically expressed as

$$F = -kx$$

where F is the applied force, k is the spring constant, and x is the deformation, this law is crucial for understanding elasticity in the physics of materials.

Fault The Law Explained 9

Duncan Matthews, Paul Torremans

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