

Newton's Second Law

Objectives

1. To verify experimentally the relationship between the force acting on an object, its mass, and its acceleration.

Introduction

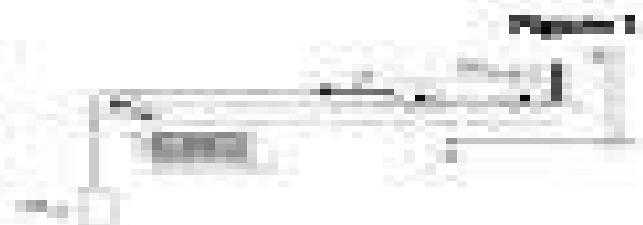
According to Newton's second law, the acceleration, a , of a body is directly proportional to the net force acting on the body, ΣF , applied to the body:

$$\Sigma F \propto a \quad \text{or} \quad ma \quad (1)$$

where m is the mass of the body.

The experimental setup for this experiment is shown in Figure 1 and is a variation of Atwood's machine.

A force F (tension) will be applied to directly to directly to the mass m_1 . The mass m_1 is connected to a spring with constant k and mass m_2 . It is connected to the second mass m_2 by a string that is attached to the second mass m_2 by a string that is attached to the second mass m_2 .



$$\Sigma F_{m_1} = m_1 a \quad \text{or} \quad F \quad (2)$$

When F is applied to the mass m_1 , the mass m_1 will accelerate. If F is known, the acceleration of the mass m_1 is known. Correspondingly, if F is applied to the mass m_2 , the acceleration of the mass m_2 is known. This analysis assumes a frictionless system.

In addition, the magnitude of the force of a spring acting on the mass, the spring force, F_s , will be proportional to the displacement, x , of the spring from its equilibrium position. The spring force, F_s , is proportional to the displacement, x , of the spring from its equilibrium position.

$$\Sigma F_{m_2} = m_2 a \quad \text{or} \quad F_s \quad \text{or} \quad kx \quad \text{or} \quad m_2 a$$

In equilibrium, the spring force F_s is equal to the weight of the mass m_2 . A force F_s will be applied to the mass m_2 by the spring. The spring force, F_s , is proportional to the displacement, x , of the spring from its equilibrium position.

When F is applied to the mass m_1 , the mass m_1 will accelerate. If F is known, the acceleration of the mass m_1 is known. Correspondingly, if F is applied to the mass m_2 , the acceleration of the mass m_2 is known. This analysis assumes a frictionless system.

It is assumed that the spring is ideal.

$$F_s = kx \quad \text{or} \quad m_2 a$$

Physics Lab Manual 141

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