

Applied

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Chapter 6

Newton's Laws

Definition 1 (Newton's Laws). • **Newton's first law:**

If a body is at rest or moving at a constant speed in a straight line, then it will remain at rest or keep moving in a straight line at constant speed unless acted upon by a force.

• **Newton's second law:**

The rate of change of the momentum of a body is equal to the force imposed on it

$$\text{momentum } \vec{p} = m \cdot \vec{v} / \frac{d}{dt} \vec{p} = \vec{F}.$$