

chapter 6

Linear Momentum And Energy

1. Linear Momentum

In Newtonian mechanics, **linear momentum**, **translational momentum**, or simply **momentum** is the product of the mass m and velocity \vec{v} of an object.

It is a vector quantity, possessing a $\vec{p} = m\vec{v}$

In SI units, momentum is measured in kilogram-meter per second (kg-m/s).