

MECHANICS AND PROPERTIES OF MATTER

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MECHANICS

Mechanics is the area of physics concerned with the motions of physical objects, more specifically the relationships among force, matter, and motion.

Mechanics may be divided into three branches:

- Statics
- Kinematics
- Kinetics

- Isaac Newton in his *Philosophiae Naturalis Principia Mathematica* (1687),
- Newton's Law of Motion

➤ three quantities are energy,
(linear) momentum, and angular momentum.

IMPACT

The force with which one thing hits another or with which two things hit each other:

- Direct Impact
- Oblique Impact