

Chapter 12: Forces and Motion

Section 12.3 Newton's Third Law of Motion and Momentum

(pages 372–377)

**Analyzing Momentum****Content and Vocabulary Support****Momentum**

Momentum is the product of an object's mass and velocity. The larger the mass of an object or the faster it is moving, the larger its momentum. If an object has large momentum, it is hard to stop. Imagine trying to stop a car rolling very slowly down a slope. It would be hard to do because of the large mass of the car, not because of the car's velocity. It would also be hard to stop an object with a small mass but great velocity, such as a baseball traveling more than 100 kilometers per hour. The baseball's speed would give it large momentum.

Momentum Formula

The formula for calculating the momentum of an object is:

$$\text{Momentum} = \text{Mass} \times \text{Velocity}$$

Momentum is measured in units of kilogram-meters per second, written kg-m/s. For example, the momentum of a golf ball with a mass of 0.05 kilograms and a speed of 58 meters per second is:

$$\text{Momentum} = 0.05 \text{ kg} \times 58 \text{ m/s} = 2.9 \text{ kg-m/s}$$

The equation for momentum can be rewritten to find mass or velocity if momentum is known:

$$\text{Mass} = \frac{\text{Momentum}}{\text{Velocity}}$$

$$\text{Velocity} = \frac{\text{Momentum}}{\text{Mass}}$$

Law of Conservation of Momentum

According to the law of conservation of momentum, within a system total momentum does not change. If one object loses momentum, another object gains momentum. Thus, momentum is conserved. For example, a baseball bat loses velocity and momentum when it hits a ball. However, the ball gains velocity and momentum when the bat strikes it.

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Newton's Principia For The Modern Student Joseph Gallant, 2025-01-24 At some point in their careers most physicists make an attempt to read and understand Newton's Principia Unfortunately it is an extremely difficult book it quickly becomes clear that one does not simply read the Principia Even for a professional physicist Newton's prose written in Latin and translated to English is difficult to follow His diagrams and figures are complicated and confusing To understand fully what Newton had done the problems he posed would have to be solved by the reader Newton's geometric methods and techniques and the geometry and vocabulary that passed for common knowledge in the late 17th century are now arcane and all but inaccessible to a modern reader The contents of the Principia are not Most physicists and physics students and many scientists in general would find the physics in the Principia interesting illuminating and useful This book presents all the wonderful physics in the Principia in a manner that a modern reader can recognize and understand using physics and mathematics as we understand them in the 21st century

Guide to Scientific Computing Peter R. Turner, 2001 This book introduces the reader to many of the problems of scientific computing and the wide variety of methods used for their solutions It discusses basic approaches and stimulates an appreciation of the need for numerical methods in solving different types of problems For each of the problems presented the author provides some mathematical justification and examples These serve as practical evidence and motivation for the reader to follow Practical justification of the methods is provided through computer examples and exercises The book includes an introduction to MATLAB but the code used is not intended to exemplify sophisticated or robust pieces of software it is purely illustrative of the method under discussion

Gravitation Charles W. Misner, Kip S. Thorne, John Archibald Wheeler, 2017-10-24 Spacetime physics Physics in flat spacetime The mathematics of curved spacetime Einstein's geometric theory of gravity Relativistic stars The universe Gravitational collapse and black holes Gravitational waves Experimental tests of general relativity Frontiers

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