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Classical mechanics describes the motion of macroscopic objects, from projectiles to parts of machinery, and astronomical objects, such as spacecraft, planets, stars and galaxies.. If the present state of an object is known it is possible to predict by the laws of classical mechanics how it will move in the future (determinism) and how it has moved in the past (reversibility).

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Paperback. Pub Date :2010-04-01 Pages: 660 Language: English Publisher: Pearson For 30 years. Classical Mechanics has been the acknowledged standard in advanced classical mechanics courses This classic book enables readers to make connections between classical and modern. physics - an indispensable part of a physicist's education In this new edition.

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The ancient Greek philosophers, Aristotle in particular, were among the first to propose that abstract principles govern nature. Aristotle argued, in *On the Heavens*, that terrestrial bodies rise or fall to their "natural place" and stated as a law the correct approximation that an object's speed of fall is proportional to its weight and inversely proportional to the density of the fluid it is ...

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Chapter 1 Lagrangian Mechanics Our introduction to Quantum Mechanics will be based on its correspondence to Classical Mechanics. For this purpose we will review the relevant concepts of Classical Mechanics.

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