

motion

Motion is the change in position of an object with respect to its surroundings. It involves concepts like displacement, velocity, and acceleration. Displacement is the change in position, velocity is the rate of change of displacement, and acceleration is the rate of change of velocity. The laws of motion, formulated by Sir Isaac Newton, describe how forces influence the motion of objects. Objects can have uniform motion (constant velocity) or accelerated motion (changing velocity). Understanding motion is fundamental to physics and has applications in various scientific and everyday contexts.

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