

Motion in straight line pdf

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There are kinematical quantities to identify We shall confine ourselves to the study of motion of objects along a straight line, also known as rectilinear motion. For this, we develop the concepts of velocity and acceleration. Finally, to understand the Motion along x-axis-Vector quantity indicates not just how fast an object is moving but also in which direction it is moving SI Units: m/s Dimensions: Length/Time [L]/[T] The slope of a straight line connecting points on an x-versus-t plot is equal to the average velocity during that time interval MOTION IN A STRAIGHT LINE. to its surroundings with time, then • To describe straight-line motion in terms of velocity and acceleration To distinguish between average and instantaneous velocity and average and instantaneous acceleration To interpret graphs of position versus time, velocity versus time, and acceleration versus time for straight-line motion It is now possible to describe the motion of an object traveling with a constant acceleration along a straight line. If an object changes its position with respect to its surroundings with time, then it is called in motion. Rest. For instance, motion of a block in a straight line motion of a train along a straight track a man walking on a level and narrow road and object falling under gravity etc Two For motion along a straight line, say X-axis, only x-coordinate varies with time and we have an x-t graph. Motion. Let us first consider the simple case in which an object is stationary, Motion In A Straight Line Notes PDF. The Class Physics notes is a written explanation for every passage or concepts included in the chapter Motion In A Straight Line. ** learn how to describe motion. If the motion of the object is only in one direction, it is said to be the motion in a straight line. For example, discussing motion along a straight line Equality of Vectors Two vectors A and B are said to be equal if, and only if, they have the same magnitude and the same direction. For the case of rectilinear motion with uniform acceleration, a set of simple equations can be obtained. These Motion can be in a straight line (1D), in a plane (2D) or in space (3D).

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