Motion In One Dimension

Particle

A particle is ideally just a piece or a quantity of matter, having practically no linear dimensions but only a position.

In practice it is difficult to get such particle, but in certain circumstances an object can be treated as particle.

Such circumstances are

(i) All the particles of solid body performing linear motion cover the same distance in the same time. Hence motion of such a body can be described in terms of the motion of its constituent particle

(ii) If the distance between two objects is very large as compared to their dimensions, these objects can be treated as particles. For example, while calculating the gravitational force between Sun and Earth, both of them can be considered as particles.

Frame of reference

A "frame of reference" is just a set of coordinates: something you use to measure the things that matter in Newtonian problems, that is to say, positions and velocities, so we also need a clock.

Or A place and situation from where an observer takes his observation is called frame of reference.

A point in space is specified by its three coordinates (x, y, z) and an "event" like, say, a little explosion, by a place and time: (x, y, z, t).

An inertial frame is defined as one in which Newton's law of inertia holds—that is, anybody which isn't being acted on by an outside force stays at rest if it is initially at rest, or continues to move at a constant velocity if that's what it was doing to begin with. Example of inertial frame of reference is observer on Earth for all motion on surface of earth. Car moving with constant velocity

An example of a non-inertial frame is a rotating frame, such as a accelerating car,

Rest and Motion

When a body does not change its position with respect to time with respect to frame of reference, then it is said to be at rest. Revolving earth Motion is the change of position of an object with respect to time.

To study the motion of the object, one has to study the change in position (x,y,z) coordinates) of the object with respect to the surroundings. It may be noted that the position of the object changes even due to the change in one, two or all the three

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