

Physics 1114 - General Physics I

Quiz #12 - 2012.06.26

Solutions

1. What advantage is there in computing the center of mass of a system of particles?

The motion of the system, momentum, and much more can be computed using the center of mass.

2. What is the relationship between impulse and force? Also relate impulse to momentum.

An impulse is the product of a force and the time over which the force is applied. The change in momentum of an object, when a constant force is applied, is also equal to impulse of the force acting on the object.