



Rotational Motion

7.1 Introduction

Translation is motion along a straight line but rotation is the motion of wheels, gears, motors, planets, the hands of a clock, the rotor of jet engines and the blades of helicopters. First figure shows a skater gliding across the ice in a straight line with constant speed. Her motion is called translation but second figure shows her spinning at a constant rate about a vertical axis. Here motion is called rotation.

Up to now we have studied translatory motion of a point mass. In this chapter we will study the rotatory motion of rigid body about a fixed axis.



(1) Rigid body : A rigid body is a body that can rotate with all the parts locked together and without any change in its shape.

(2) System : A collection of any number of particles interacting with one another and are under consideration during analysis of a situation are said to form a system.

(3) Internal forces : All the forces exerted by various particles of the system on one another are called internal forces. These forces alone enable the particles to form a well defined system. Internal forces between two particles are mutual (equal and opposite).

(4) External forces : To move or stop an object of finite size, we have to apply a force on the object from outside. This force exerted on a given system is called an external force.

7.2 Centre of Mass

Centre of mass of a system (body) is a point that moves as though all the mass were concentrated there and all external forces were applied there.

(1) Position vector of centre of mass for n particle system : If a system consists of n particles of masses $m_1, m_2, m_3, \dots, m_n$, whose position vectors are $\vec{r}_1, \vec{r}_2, \vec{r}_3, \dots, \vec{r}_n$ respectively then position vector of centre of mass

$$\vec{r} = \frac{m_1 \vec{r}_1 + m_2 \vec{r}_2 + m_3 \vec{r}_3 + \dots + m_n \vec{r}_n}{m_1 + m_2 + m_3 + \dots + m_n}$$

Hence the centre of mass of n particles is a weighted average of the position vectors of n particles making up the system.



(2) Position vector of centre of mass for two particle system : $\vec{r} = \frac{m_1 \vec{r}_1 + m_2 \vec{r}_2}{m_1 + m_2}$

and the centre of mass lies between the particles on the line joining them.

If two masses are equal i.e. $m_1 = m_2$, then position vector of centre of mass $\vec{r} = \frac{\vec{r}_1 + \vec{r}_2}{2}$

(3) Important points about centre of mass

Rotational Motion Worksheet Answer Key

RD Boyd



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