

UNIT 5

Gravitation

1 Explain Newton's law of universal gravitation and also explain law of gravitation with respect to Newton's third law of motion.

Ans. Law of Gravitation

According to Newton's law of universal gravitation

Everybody in the universe attracts every other body with a force which is directly proportional to the product of their masses and inversely proportional to the square of the distance between their centres.

Consider two bodies of masses m_1 and m_2 , the distance between the centres of masses is d as shown in figure

Two masses attract each other with a gravitational force of equal magnitude.

According to the law of gravitation, the gravitational force of attraction F with which the two masses m_1 and m_2 separated by a distance d attract each other is given by:

$$F \propto m_1 m_2$$

$$F \propto \frac{1}{d^2}$$

or $F \propto \frac{m_1 m_2}{d^2}$

$$F = G \frac{m_1 m_2}{d^2}$$

Here G is the proportionality constant. It is called the universal constant of gravitation. Its value is same everywhere. In SI units its value is $6.673 \times 10^{-11} \text{ Nm}^2\text{kg}^{-2}$. Due to small value of G , the gravitational force of attraction between objects around us is very small and we do not feel it. Since the mass of Earth is very large, it attracts near by objects with a significant force. The weight of an

object on the Earth is the result of gravitational force of attraction between the Earth and the object.

Law of Gravitation and Newton's Third law of Motion

It is to be noted that mass m_1 attracts m_2 towards it with a force F while mass m_2 attracts m_1 towards it with a force of the same magnitude F but in opposite direction. If the force acting on m_1 is considered as action then the force acting on m_2 will be the reaction. The action and reaction due to force of gravitation are equal in magnitude but opposite in directions. This is in consistence with Newton's third law of motion which states, to every action there is always an equal but opposite reaction.

2 Explain Gravitational Field.

Ans. Gravitational Field

According to the Newton's law of gravitation, the gravitational force between a body of mass m and the Earth is given by

$$F = G \frac{m M_e}{r^2}$$

Where M_e is the mass of the Earth and r is the distance of the body from the centre of the Earth. The weight of a body is due to the gravitational force with which the earth attracts a body. Gravitational force is a non-contact force. For example, the velocity of a body, thrown up, goes on decreasing while on return its velocity goes on increasing. This is due to the gravitational pull of the Earth acting on the body whether the body is in contact with the Earth or not. Such a force is called the field force. It is assumed that a gravitational field exists all around the Earth. This field is directed towards the centre of the Earth as shown by arrows in figure. The gravitational field becomes weaker and weaker as we go farther and farther away from the Earth. In the gravitational field of the Earth, the gravitational force per unit mass is called the gravitational field strength of the Earth. At any place its value is equal to the value of g at that

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Circular of Information of the Bureau of Education, for ... United States. Office of Education, 1884

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