

Chapter 7

Gravitation

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Introduction

Have you ever wondered, why does anything thrown up fall down? Why does not the moon fall to the earth? Why does not the earth fly off into space rather than remaining in orbit around the sun? Why do all the planets revolve around the sun? Why is the life of astronauts inside an orbiting satellite very different? Why is going uphill is lot more tiring than going downhill? In all these cases, there must be some force acting on the moon, the planets and the falling bodies. The force acting on them is called Gravitational force.

In this chapter we shall learn about the basic laws governing gravitation and the motion of objects under the influence of gravitation. We shall apply the law of gravitation to phenomena such as the variation of weight with altitude, the orbits of satellites around the earth and the orbits of planets around the sun.

UNIVERSAL LAW OF GRAVITATION

"Every particle of matter in the universe attracts every other particle with a force that is directly proportional to the product of the masses of the particles and inversely proportional to the square of the distance between them".

Mathematically

$$|\vec{F}| \propto m_1 m_2$$

$$|\vec{F}| \propto \frac{1}{r^2}$$

$$|\vec{F}| \propto \frac{m_1 m_2}{r^2}$$

or $|\vec{F}| = \frac{G m_1 m_2}{r^2}$

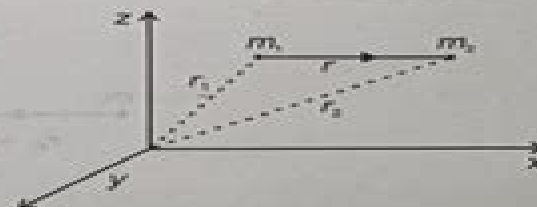


Fig.: Gravitational force on m_1 due to m_2 is along $\vec{r}$ where the vector $\vec{r}$ is $(\vec{r}_2 - \vec{r}_1)$

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Michael E. Browne



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The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts.

The Secret History is a brilliant and thrilling novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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