

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

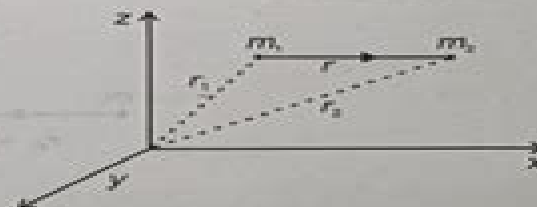


Fig.: Gravitational force on m_1 due to m_2 is along \vec{r} where the vector \vec{r} is $(\vec{r}_2 - \vec{r}_1)$

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Relativity, Gravitation and Cosmology Ta-Pei Cheng,2005 An introduction to Einstein s general theory of relativity this work is structured so that interesting applications such as gravitational lensing black holes and cosmology can be presented without the readers having to first learn the difficult mathematics of tensor calculus

Study Guide for Physics in the Modern World 2E Jerry Marion,2012-12-02 Study Guide for Physics in the Modern World 2E provides information pertinent to the fundamental concepts in physics This book presents a list of concepts definitions and equations with various supplementary exercises for the readers Comprised of 21 chapters this book starts with an overview of the standard units of measure for length time mass energy force pressure and density This text then provides the meaning of various terms in physics including atom molecule element and compound Other chapters explore the composition and behavior of all ordinary matter in which it depends on the four basic units including electrons protons neutrons and photons This book discusses as well the method used for converting the units of physical quantities from one system of measurement to another The final chapter deals with the various applications of radiation in biological

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Gravitation in Astrophysics B. Carter, J.B. Hartle, 2012-12-06 With the discovery of pulsars quasars and galactic X ray sources in the late 60 s and early 70 s and the coincident expansion in the search for gravitational waves relativistic gravity assumed an important place in the astrophysics of localized objects Only by pushing Einstein's solar system tested general theory of relativity to the study of the extremes of gravitational collapse and its outcomes did it seem that one could explain these frontier astronomical phenomena This conclusion continues to be true today Relativistic gravity had always played the central role in cosmology The discovery of the cosmic background radiation in 1965 the increasing understanding of matter physics at high energies in the decades following and the growing wealth of observations on the large scale structure meant that it was possible to make increasingly detailed models of the universe both today and far in the past This development not accidentally was contemporary to that for localized objects described above

Topological GeometroDynamics Matti Pitkanen, 2006-05 Topological GeometroDynamics is a modification of general relativity inspired by the conceptual problems related to the definitions of inertial and gravitational energy in general relativity Topological geometrodynamics can be also seen as a generalization of super string models Physical space times are seen as four dimensional surfaces in certain eight dimensional space The choice of this space is fixed by symmetries of the standard model so that geometrization of known classical fields and elementary particle quantum numbers results The notion of many sheeted space time allows re interpretation of the structures of perceived world in terms of macroscopic space time topology The generalization of the number concept based on fusion of real numbers and p adic number fields implies a further generalization of the space time concept allowing to identify space time correlates of cognition and intentionality Quantum measurement theory extended to a quantum theory of consciousness becomes an organic part of theory A highly non trivial prediction is the existence of a fractal hierarchy of copies of standard model physics with dark matter identified in terms of

macroscopic quantum phases characterized by dynamical and quantized Planck constant The book is a comprehensive overview and analysis of topological geometrodynamics as a mathematical and physical theory

Learning Disabilities Phakkharawat Sittiprapaporn, 2012-03-14 Learning disability is a classification that includes several disorders in which a person has difficulty learning in a typical manner Depending on the type and severity of the disability interventions may be used to help the individual learn strategies that will foster future success Some interventions can be quite simplistic while others are intricate and complex This book deserves a wide audience it will be beneficial not only for teachers and parents struggling with attachment or behavior issues but it will also benefit health care professionals and therapists working directly with special needs such as sensory integration dysfunction

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