GRAVITATION





STUDENTS!

Granity is one of the four fundamental forces of our universe. Although it is the weakest of the forces, it is the one that people have the most experience with. The equations and concepts below explain gravity in a way that is consistent with classical mechanics, but the theory of general relativity is required for a complete explanation of our modern understanding of privity.

Now Yearns

Law of Universal Gravitations Any two objects in the universe are attracted to each other by a fonce proportional to the masses of the two objects and inversely proportional to the square of the distance between the center of mass of each object. This law determines the force of gravity on all objects at any point in space. St units: N

Gravitational Field: A force field that surrounds massive objects with acceleration vectors that oull smaller objects towards itself. The magnitude of the vector is equal to the acceleration of the object due to gravity at that distance from the object. St units: m/s

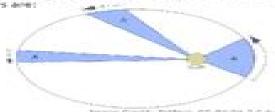
Flielid: Something that helps us keep track of forces.

Sabellibes An object orbiting another object.

Kepler's Laws of Planetary Motion

Kepler came up with three laws of inction that describe the movements of the planets based on his observations of the solar system before Newton developed the law of universal gravitation. It is possible to derive Kepler's laws from the law of universal pravitation and Newton's laws of motion. Kepler's laws are:

- Planets orbit in an ellipse with the sun at one of the foci.
- 2. For a given period of time, the angular displacement for a planet will always be equal. To the right is a diagram. illustrating this law.
- 3. The square of the orbital period is proportional to the cube of half the length of the major axis of the planet's orbit.



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In physics, anything orbiting another body is considered a satellite. For example, the Moon is considered to be Earth's satellite even though it is not referred to as a "satellite."

Satellites are able to stay in space despite being pulled down by gravity because of their horizontal velocity. Newton explains this concept by using an example: if we throw a ball horizontally, it will gradually fall to the ground. If we throw the ball much faster, it will travel for a longer time before hitting the ground because we threw it faster and because the Earth's surface curves away from the ball as it is pulled down by prayity. Hypothetically, if we throw the ball fast enough, the distance that the Earth's surface curves away from the ball will equal the distance the ball falls. Without air resintance, the ball would continue to fly around the earth forever.



The speeds necessary for satellite motion are extremely high. For example, the International Space Station has an average linear speed of about 17,200 mph (~7,700 m/s). This is why all satellites exist outside the Earth's atmosphere, where there is no air resistance to slow them down or to generate heat that would set the satellite on fine.

Important Equations

Fig. - floride of granity Law of Universal Gravitation: Fuett - Triange

gravitational = 6.674 × 10⁻¹³ retining? constant r - distance between objects.

Simple - 0.35 m/s Near Earth's surface, we can approximate: g



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Table of Contents Gravitation Study Guide

- 1. Understanding the eBook Gravitation Study Guide
 - The Rise of Digital Reading Gravitation Study Guide
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Gravitation Study Guide
 - Exploring Different Genres
 - o Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Gravitation Study Guide
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Gravitation Study Guide
 - Personalized Recommendations
 - Gravitation Study Guide User Reviews and Ratings
 - Gravitation Study Guide and Bestseller Lists
- 5. Accessing Gravitation Study Guide Free and Paid eBooks

- Gravitation Study Guide Public Domain eBooks
- Gravitation Study Guide eBook Subscription Services
- Gravitation Study Guide Budget-Friendly Options
- 6. Navigating Gravitation Study Guide eBook Formats
 - o ePub, PDF, MOBI, and More
 - Gravitation Study Guide Compatibility with Devices
 - Gravitation Study Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Gravitation Study Guide
 - Highlighting and Note-Taking Gravitation Study Guide
 - o Interactive Elements Gravitation Study Guide
- 8. Staying Engaged with Gravitation Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Gravitation Study Guide
- 9. Balancing eBooks and Physical Books Gravitation Study Guide
 - Benefits of a Digital Library
 - o Creating a Diverse Reading Collection Gravitation Study Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Gravitation Study Guide
 - Setting Reading Goals Gravitation Study Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Gravitation Study Guide
 - Fact-Checking eBook Content of Gravitation Study Guide
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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