

Gravitation

Important Information

1. Newton's Law of Gravitation

The magnitude of the gravitational force of attraction between two particles of masses m_1 and m_2 separated by a distance r is given by

$$F = \frac{Gm_1m_2}{r^2}$$

Where G is called universal gravitational constant.

$$G = 6.67 \times 10^{-11} \text{ Nm}^2/\text{Kg}^2$$

2. The magnitude of the acceleration due to gravity (g) at the surface of the earth is given by

$$g = \frac{GM}{R^2}$$

Where M is the mass of the Earth of radius R

3. The magnitude of the acceleration due to gravity (g^1) at a point at a distance r ($r > R$) from the centre of the earth is given by

$$g^1 = \frac{GM}{r^2} = \frac{GM}{(R+h)^2}$$

Where h = altitude or the height of the point from the surface of the earth.

$$\frac{g^1}{g} = \left(\frac{R}{r}\right)^2 = \left(\frac{R}{R+h}\right)^2$$

4. The critical or orbital velocity (V_C) of a satellite, (moving in a circular orbit of a radius $r = R + h$), is given by

$$V_C = \sqrt{\frac{GM}{r}} = \sqrt{\frac{GM}{R+h}} = \sqrt{\frac{gR^2}{R+h}} = \sqrt{g^1 R+h}$$

If the satellite is orbiting very close to the surface of the earth, i.e. if $h \ll R$, then

$$V_C = \sqrt{\frac{GM}{r}} = \sqrt{gR}$$

The radius of the orbit

$$R+h = \frac{GM}{V_C^2}$$

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Table of Contents Msb 12th Gravitation Notes 2015

1. Understanding the eBook Msb 12th Gravitation Notes 2015
 - The Rise of Digital Reading Msb 12th Gravitation Notes 2015
 - Advantages of eBooks Over Traditional Books
2. Identifying Msb 12th Gravitation Notes 2015
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Msb 12th Gravitation Notes 2015
 - User-Friendly Interface
4. Exploring eBook Recommendations from Msb 12th Gravitation Notes 2015
 - Personalized Recommendations
 - Msb 12th Gravitation Notes 2015 User Reviews and Ratings
 - Msb 12th Gravitation Notes 2015 and Bestseller Lists
5. Accessing Msb 12th Gravitation Notes 2015 Free and Paid eBooks

- Msb 12th Gravitation Notes 2015 Public Domain eBooks
- Msb 12th Gravitation Notes 2015 eBook Subscription Services
- Msb 12th Gravitation Notes 2015 Budget-Friendly Options
- 6. Navigating Msb 12th Gravitation Notes 2015 eBook Formats
 - ePub, PDF, MOBI, and More
 - Msb 12th Gravitation Notes 2015 Compatibility with Devices
 - Msb 12th Gravitation Notes 2015 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Msb 12th Gravitation Notes 2015
 - Highlighting and Note-Taking Msb 12th Gravitation Notes 2015
 - Interactive Elements Msb 12th Gravitation Notes 2015
- 8. Staying Engaged with Msb 12th Gravitation Notes 2015
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Msb 12th Gravitation Notes 2015
- 9. Balancing eBooks and Physical Books Msb 12th Gravitation Notes 2015
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Msb 12th Gravitation Notes 2015
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Msb 12th Gravitation Notes 2015
 - Setting Reading Goals Msb 12th Gravitation Notes 2015
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Msb 12th Gravitation Notes 2015
 - Fact-Checking eBook Content of Msb 12th Gravitation Notes 2015
 - 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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