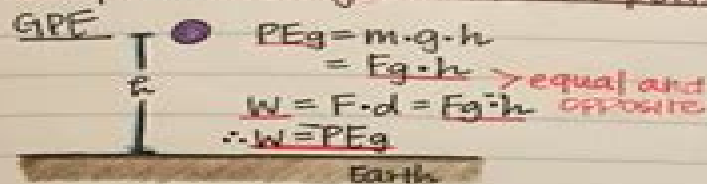


Chapter 23: Electric Potential

23-1 Potential Difference

- Comparison to gravitational potential energy:



- Deriving the equation:

- $dU = -\vec{F} \cdot d\vec{r}$ change in PE for a conservative force F undergoing $d\vec{r}$
- $\vec{F} = q_0 \vec{E}$ force exerted by electrostatic field \vec{E} on pt charge q_0 .
- $dU = -q_0 \vec{E} \cdot d\vec{r}$ resulting change in electric potential energy
- $dV = \frac{dU}{q_0} = -\vec{E} \cdot d\vec{r}$ potential difference
 → potential energy change per unit charge

For a finite displacement from point $a \rightarrow b$

$$\Delta V = V_b - V_a = \frac{\Delta U}{q_0} = -\int_a^b \vec{E} \cdot d\vec{r}$$

This is $-\frac{W}{q}$

scalar function unlike \vec{E}

- Function V is called the electric potential/potential.

- $U = q_0 V$ relation between potential energy and potential

- V is continuous at any point not occupied by a point or line of charge.

- Units

$$\text{Electric Potential} = \left[\frac{\text{Potential energy}}{\text{unit charge}} \right] = \left[\frac{J}{C} \right] = V \text{ or Volts/Voltage}$$

$$eV = 1.60 \times 10^{-19} \text{ C} \cdot V \text{ or J}$$

$$\text{Electric Field} = \left[\frac{N}{C} \right] = \left[\frac{V}{m} \right] \text{ either } \frac{\text{force}}{\text{unit charge}} \text{ or } \frac{\text{change in potential}}{\text{distance}}$$

- Potential and Electric Fields



- \vec{E} points in a direction where V decreases
- positive charge accelerates in direction of \vec{E} : decreasing V
- negative charge accelerates in direction opposite of \vec{E} : increasing V

If released from rest, KE increases and PE decreases.

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VM Jensen



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Table of Contents Mh State 12 Th Science Physics Notes

1. Understanding the eBook Mh State 12 Th Science Physics Notes
 - The Rise of Digital Reading Mh State 12 Th Science Physics Notes
 - Advantages of eBooks Over Traditional Books
2. Identifying Mh State 12 Th Science Physics Notes
 - 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 Mh State 12 Th Science Physics Notes
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mh State 12 Th Science Physics Notes
 - Personalized Recommendations
 - Mh State 12 Th Science Physics Notes User Reviews and Ratings
 - Mh State 12 Th Science Physics Notes and Bestseller Lists
5. Accessing Mh State 12 Th Science Physics Notes Free and Paid eBooks
 - Mh State 12 Th Science Physics Notes Public Domain eBooks
 - Mh State 12 Th Science Physics Notes eBook Subscription Services
 - Mh State 12 Th Science Physics Notes Budget-Friendly Options

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