

Consider a plane sheet of charge having charge density  $\sigma$ .

And P is the point at distance r from the sheet where we have to find out electric field intensity. Electric field exist both side of sheet so point can be taken any side of the plane sheet.

To apply Gauss's theorem, draw a Gaussian surface in the form of cylinder such that Point P lies on the cross-sectional surface of the cylinder.



Electric Field by Charged infinite sheet

Applying Gauss's theorem

$$\oint \vec{E} \cdot \vec{dS} = \frac{q}{\epsilon_0}$$

This flux can be divided into three parts as per the areas (I, II, III as in figure) of Gaussian surface.

$$\int_I \vec{E} \cdot \vec{dS} + \int_{II} \vec{E} \cdot \vec{dS} + \int_{III} \vec{E} \cdot \vec{dS} = \frac{q}{\epsilon_0}$$

$$\int_I E dS + 0 + \int_{III} E dS = \frac{q}{\epsilon_0}$$

$$ES + ES = \frac{q}{\epsilon_0}$$

$$2ES = \frac{\sigma S}{\epsilon_0}$$

# Physics 12 Chapter Electrostatic Notes

**N Noddings**



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**New Technical Books** New York Public Library, 1989 *Instructor's Manual for Halliday/Resnick, Physics, Third Edition, Fundamentals of Physics, Second Edition, Second Edition Extended* J. Richard Christman, 1983

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## **Table of Contents Physics 12 Chapter Electrostatic Notes**

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

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