

EXPERIMENT NO. 1

AIM:- To determine resistivity of two/three wires by plotting a graph for potential difference versus current.

APPARATUS REQUIRED:- A Voltmeter, an Ammeter (mA), rheostat, two wires, Battery, 1 Key, meter scale.

Theory :-

By Ohm's Law

$$V \propto I$$

$$\frac{V}{I} = \text{Constant (R)}$$

$$\therefore R \propto \frac{l}{A} \Rightarrow R = \frac{\rho l}{A}$$

$$\boxed{\rho = \frac{RA}{l}}$$

$$\boxed{\rho = R \frac{A^2}{l}}$$

Resistivity of the wire.

A = Area of wire.

l = Length of wire.

R = Resistance of wire.

Observations :-

Range of ammeter = 0-500 (mA)

Range of Voltmeter = 0-500 (mV)

Teacher's Signature _____

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Table of Contents Physics Class 12 File Up Board

1. Understanding the eBook Physics Class 12 File Up Board
 - The Rise of Digital Reading Physics Class 12 File Up Board
 - Advantages of eBooks Over Traditional Books
2. Identifying Physics Class 12 File Up Board
 - 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 Class 12 File Up Board
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physics Class 12 File Up Board
 - Personalized Recommendations
 - Physics Class 12 File Up Board User Reviews and Ratings
 - Physics Class 12 File Up Board and Bestseller Lists

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