

FERMI ENERGY APPARATUS

Aim: To determine the Fermi energy of copper .

Apparatus: Main Unit to measure resistance precisely, copper coil, connecting wires, thermometer, oven , beaker & silicon Oil.

Formula:

$$E_f = \frac{1.36 \times 10^{-15}}{1.6 \times 10^{-19}} \sqrt{\frac{\rho AS}{L}} \text{ eV}$$

where, E_f : Fermi energy of copper (eV)

ρ : Density of copper (= 8940 Kg m⁻³)

A : Area of cross section (0.64×10^{-6} m²)

L : Length of copper wire (1.25 m)

S : Slope of the curve plotted R versus T

DESCRIPTION OF MAIN UNIT

Main unit is a compact high reliability 3^{1/2} Digit instrument suitable for Measurement of resistivity of copper. Emphasis in the design of this instrument has been to provide quick, stable and repeatable readings of resistance. The instruments uses 4-terminal measurement so that resistance of test leads and contacts is eliminated from test results.

MAINS: To energize the instruments. When switch to ON position the LED display will glow to indicate the energized position of instruments.

SET ZERO: Stabilize instrument for about 2-3 minutes, short the V+ & V- set zero by zero – setting Knob—sign appearing on display only guides when – sign blinks.

RANGE OHMS: Four LED are there to indicate the display range of micro ohm, milli ohm, ohms & K ohms.

RANGE: select the function auto or hold range in hold range you can select the required range measurement.

Take care that clip –I should not touch –V and +V directly except through conductor otherwise erratic readings will appear.

Fermi Energy Pesit Lab Manual

M Mark



Fermi Energy Pesit Lab Manual:

Fermi Energy Pesit Lab Manual: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have charmed audiences this year. The Must-Read : Colleen Hoover "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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