

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

Jiyuan Zhang



Fermi Energy Pesit Lab Manual:

Reviewing **Fermi Energy Pesit Lab Manual**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Fermi Energy Pesit Lab Manual**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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