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Gouy's Balance Method

Product Image

Description

Apparatus for Measurement of Susceptibility of Paramagnetic Solids by Gouy's Method:

In the Gouy's method of susceptibility measurement, the solid sample in the form of a long cylinder (area of cross section A) is hung from the pan of a balance and is placed such that one end of the sample is between the pole-pieces of the magnet (field H) and the other one is out side the field. The force exerted on the sample by the inhomogeneous magnetic field is obtained by measuring the apparent change (m) in the mass of the sample. The susceptibility x given by:

$x=2\triangle mg/AH^2$

If the sample is in the form of powder, it is filled in a long nonmagnetic tube which is then suspended from the pan of the balance.

The setup consists of the following:

(A) DIGITAL BALANCE:
Capacity : 100gms
Sensitivity : 1 mg.
Beam : Load Cell
Display : LCD Display
Operating : 9v. Adaptor workable on 220v.50Hz.

(b) Sample in the form of a long rod:
Set of samples

(c) Electromagnet:
Pole Pieces : 50mm tappered to 25mm
Mag. Field : 10KG 10mm Air gap
Energizing Coils : Two of approx. 13each
Power : 0- 45Vdc, 5Amp.

(D) Electromagnet Power Supply:
Display :- 3 Digit LED
Operating :- 220v.50Hz.

(e) Gaussmeter
Digital 31/2 Digital Display
Range :- 2k - 20KG.
with Hall Probe

The experiment is completed in all respect.

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Gouy's Balance Method **Catalog No.** 101021

Disclaimer

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