



BH HYSTERESIS TESTER SYSTEM

About BH hysteresis tester system

BH hysteresis tester system is designed and developed by our company and has recognition in the industry. The BH tester system is digital and suitable for BSC MSC practical's. The following tests can be performed with the system.

- BH hysteresis at diff. temperatures.

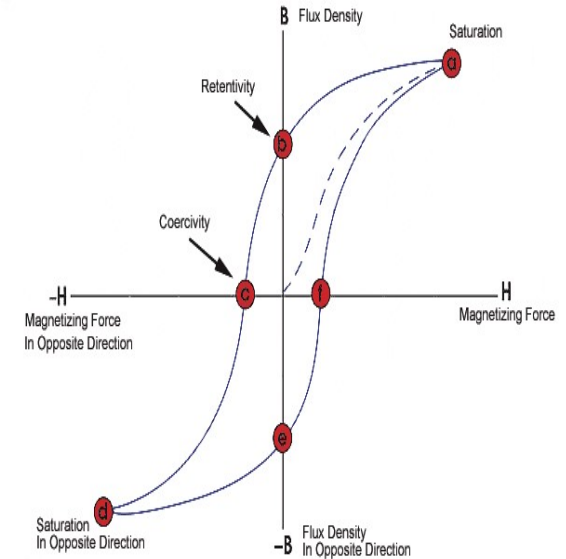


About Us

Marine India is a Professional company, working in design development and production of material research systems for the welfare of Indian Scientific Natured Groups. The main thrust of our company is to produce highly advanced adaptable and low cost systems to suit both Indian and Foreign research facilities.

Main Product Line

- PE loop tracer system
- BH loop tracer systems
- Resistance measurement systems
- Electromagnets
- DC polling unit
- AC/DC power supplies
- Source Measure Unit
- LCR Meter/Impedance analyzers interfacing, software's
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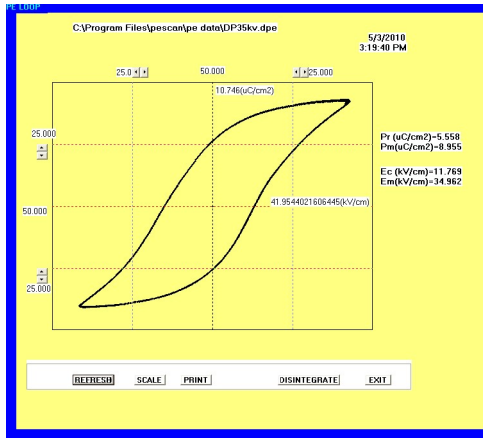
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*Application Oriented Basic Science
Group*



Specifications

- 2000 gauss
- XY probes output for oscilloscope
- Overload protections
- Current limit 2 mA
- Standard Magnetic ferrite sample
- Sample holder
- Silicon Oil 500 ml
- Manual

Basic operation

The system measures Magnetic Loop at different temperatures for materials such as ferrites magnetic materials, and other smart magnetic materials. The sample is generally cylindrical, cylindrical ring in shape can be hollow cylinder, or a rod. Two insulated windings are generally done on the sample. One is called primary of known thickness and no of turns. The second is called secondary of known thickness and turns. Electrical AC signal of different frequencies is applied in one and due to magnetization output signal is read simultaneously in secondary winding. A plot B vs. H is seen in oscilloscope

Requirements from customer side

- Customer may either produce a ring shaped test specimen or use a powder core,
- Oscilloscope and function generator.



References

- Solid State Lab (SSPL) Delhi
- Rajkot Saurashtra University
- Shimla university
- IIT Chennai
- Delhi University
- DMRL Hydrabad
- Haryana university
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The full list is very exhaustive but above is only few major references.