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PART 1 ANALYSIS OF PHYSICS PRACTICAL

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It is named after the German scientist Hermann Ludwig Ferdinand von Helmholtz. Q.What is Helmholtz Galvanometer? A. A Helmholtz galvanometer , like other galvanometers , is an instrument which can be use to measure dc current in the circuit.It is an improved form of the tangent galvanometer. . Q. On what principle is Helmholtz Galvanometer based?

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Answer:Tangent galvanometer has uniform magnetic field only at the center while Helmholtz has it between the two coils.Helmholtz galvanometer is more sensitive.At the same current Helmholtz produces more deflection and field.

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HELMHOLTZ GALVANOMETER - Engineering Physics Viva Fill in your details below or click an icon to log in: The capacitance is chosen to resonate the coil at the desired frequency. The field  $F$  at distance  $x$  from the center of the coil of radius  $r$  is defines as: How does the field along the axis of coil vary?

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A galvanometer is an instrument used to detect and measure small electric currents. Q.42. What is the principle of galvanometer ? Ans.

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It works on the principle that a current carrying coil placed in a uniform magnetic field experiences a torque. Q.43. Should galvanometer have a low or a high resistance ? Ans. A galvanometer should have a low ...

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HELMHOLTZ GALVANOMETER - Engineering Physics Viva By passing current in one direction and then in reverse direction and then taking the mean of the four readings. The capacitance is chosen to resonate the coil at the desired frequency. An AC Helmholtz coil driver is needed to generate the required time-varying magnetic field.

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## **What is the working and principle of helmholtz galvanometer?**

A Helmholtz coil is a device for producing a region of nearly uniform magnetic field, named after the German physicist Hermann von Helmholtz. It consists of two electromagnets on the same axis. Besides creating magnetic fields, Helmholtz coils are also used in scientific apparatus to cancel external magnetic fields, such as the Earth's magnetic field. A beam of cathode rays in a vacuum tube ...

## **Helmholtz coil - Wikipedia**

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$F = H \tan \theta$  ? where, H & F are mutually APPARATUS - Helmholtz galvanometer, magnetometer compass box, ammeter The first step to calculate the field of a pair of Helmholtz coil is to calculate A

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Helmholtz coil is a device for producing a region of nearly uniform magnetic field, named after .. David J.; Chase, Ronald J. (November 1994), The Calculation and Measurement of Helmholtz Coil Fields (PDF ...

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VIVA VOCE-Check Yourself-1. The electron's velocity after acceleration through the potential  $V$ .  $v^2 = eV / 2m$   $v^2 = 2eV / m$   $v = \sqrt{2eV / m}$   $v = \sqrt{eV / 2m}$ . 2. A Helmholtz coil has a pair of loops, each with  $N$  turns and radius  $R$ . They are placed coaxially at distance  $R$  and the same current  $I$  flows through the loops in the same direction. The magnitude of magnetic field at  $P$ , midway between the ...

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