

Physics Study Guide Magnetic Fields

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The equation is given by $F = q v \times B$ or $F = qvB \sin \theta$, where q is the charge, B is the magnetic field, v is the velocity, and θ is the angle between the directions of the magnetic field and the velocity; thus, using the definition of the cross product, the definition for the magnetic field is

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Magnet. An object that is surrounded by a magnetic field and that has the property, either natural or induced, of attracting iron or steel. Magnetic pole. one of the two ends of a magnet where the magnetism seems to be concentrated. Magnetic force. The attraction or repulsion between magnetic poles.

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The magnetic field through a loop can be changed either by changing the magnitude of the field or by changing the area of the loop. To be able to quantitatively describe these changes, magnetic flux is defined as $\Phi_B = BA \cos \theta$, where θ is the angle between B and the direction perpendicular to the plane of the loop (along the axis of the loop).

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This study guide reviews electromagnetism concepts: magnetic field and field lines, first right hand rule, magnetic flux, solenoid,

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electromagnetic induction, force on charged particle, second right hand rule, and inductance.

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Just as electric field, a magnetic field has magnetic field lines. We've drawn them before. And just as there's electric flux, there's magnetic flux. It's a twin equation: $\oint \mathbf{B} \cdot d\mathbf{l} = \mu_0 I_{enc}$, or for a field perpendicular to the normal of the cross sectional area, $\oint \mathbf{B} \cdot d\mathbf{l} = \mu_0 I_{enc}$. Let's take a step back. With Gauss' Law, we stated that $\oint \mathbf{E} \cdot d\mathbf{A} = \frac{Q_{enc}}{\epsilon_0}$.

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$\mu_0 = 4\pi \times 10^{-7} \text{ N/A}^2$. This means that magnetic fields are measured in N/A^2 , which is defined as a tesla (T). One tesla is quite large—Earth's magnetic field is around 30 μT at the equator, refrigerator magnets create a field of just a few millitesla, and even strong loudspeaker magnets only go up to one or two tesla.

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the force between the magnetic fields is directly proportional to the product of their magnitudes and inversely proportional to the square of the distance between them. Unlock all answers Please join to get access

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A method used to determine the direction of a magnetic field relative to the direction of conventional rule.

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