

## Magnetic Fields Physics Study Guide Answers

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Magnetic fields and lines of force. A bar magnet attracts iron objects to its ends, called poles. One end is the north pole, and the other is the south pole. If the bar is suspended so that it is free to move, the magnet will align itself so that its north pole points to the geographic north of the earth.

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...

The magnetic field created by a magnetic dipole (at distances much greater than the size of the dipole) is approximately equal to a constant,  $\mu_0/4\pi$ , multiplied by the dipole moment divided by the cube of

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the distance from the dipole. EDIT: This formula is incomplete.

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So your magnetic field around a loop is just equal to the changing E field going through it times by  $\mu_0$ , but then you have to add on a bit. This is the bit. This is just the current going round the loop times by  $\mu_0$ , this is because, as said in Stuff Moving, if you have a moving charge i.e. a current, then you get a magnetic field. So you have to ...

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vocabulary, terms, and more with flashcards, games, and other study tools. Search. ... usually 10-1000 u, that is formed when the magnetic fields of the electrons in a group of neighboring atoms are aligned in the same direction ... STUDY GUIDE. Physics Chapter 24 Magnetic Fields 70 Terms ...

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physics classes, to geology and astronomy classes. The excitement of actually participating in the ... of a study of Earth's magnetic field and the technology of magnetometers. Goals 1. Students will learn the basic properties of mag- ... Magnetism and Electromagnetism Teacher's Guide magnetic field. Magnetism and Electromagnetism.

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The finding that electric current can produce magnetic fields led to the idea that magnetic fields could produce electric currents. The production of emfs and currents by the changing magnetic field through a conducting loop is called induction. Changing the magnetic flux through a loop of wire ...

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1.1 Mathematics and Physics pages 3–10 page 10 13. Math Why are concepts in physics described with formulas? The formulas are concise and can be used to predict new data. 14. Magnetism The force of a magnetic field on a charged, moving particle is given by  $F = Bqv$ , where  $F$  is the force in kg m/s<sup>2</sup>,  $q$  is the charge in A s, and  $v$

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is the speed in m/s.

## **Magnetism, Magnetic Field Force, Right Hand Rule, Ampere's Law, Torque, Solenoid, Physics Problems**

- Electric field in a parallel-plate capacitor:  $E = \frac{Q}{\epsilon_0 A}$  - Magnetic field in an ideal solenoid:  $B = \mu_0 n i$  (where  $A$  is the area of the plate, and  $n$  is the number of turns per unit length) Electric Field Lines: Magnetic Field Lines:

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