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Key Terms. cosmic rays: comprised of particles that originate mainly from outside the solar system and reach Earth: cyclotron: ... 11.1 Magnetism and Its Historical Discoveries. Magnets have two types of magnetic poles, called the north magnetic pole and the south magnetic pole. North magnetic poles are those that are attracted toward Earth's ...

Magnetism in Matter - University Physics Volume 2 - OpenStax

Key Terms back emf emf generated by a running motor, because it consists of a coil turning in a magnetic field; it opposes the voltage powering the mot. Skip to Content. University Physics Volume 2 Key Terms. University Physics Volume 2 Key Terms. Table of contents. Print Buy book.

Magnetism and Its Historical Discoveries - University ...

Magnetism (Key Terms) STUDY. Flashcards. Learn. Write. Spell. Test. PLAY. Match. Gravity. Created by. Clyttle96 ... a magnet made from a material that easily loses its magnetism. Element. one of about 100 basic materials that make up matter. magnetic poles. The two areas of a magnet with the strongest magnetic force.

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11.S: Magnetic Forces and Fields (Summary) - Physics ...

Magnetism, at its root, arises from two sources: Electric current. Spin magnetic moments of elementary particles. The magnetic properties of materials are mainly due to the magnetic moments of their atoms' orbiting electrons. The magnetic moments of the nuclei of atoms are typically thousands of times smaller than the electrons' magnetic moments, so they are negligible in the context of the magnetization of materials.

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An example of a magnet is a compass needle. It is simply a thin bar magnet suspended at its center, so it is free to rotate in a horizontal plane. Earth itself also acts like a very large bar magnet, with its south-seeking pole near the geographic North Pole (Figure 11.2). The north pole of a compass is attracted toward Earth's geographic North Pole because the magnetic pole that is near the ...

What is Magnetism? | Magnetic Fields & Magnetic Force ...

Start studying Physics—Magnetism and Magnetic Fields Key Terms. Learn vocabulary, terms, and more with flashcards, games, and other study tools. Search. Create. Log in Sign up. ... a piece of magnetic material that does not retain its magnetism after the magnetic

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field producing it has been removed.

Glossary of Magnetic Terms

Electromagnetism is a combination of the disciplines of electricity and magnetism, which are inextricably intertwined—moving charges create magnetic fields, and moving magnetic fields can create voltages.

Applications of Magnetism | Boundless Physics

Magnetism arises from two types of motions of electrons in atoms—one is the motion of the electrons in an orbit around the nucleus, similar to the motion of the planets in our solar system around the sun, and the other is the spin of the electrons around its axis, analogous to the rotation of the Earth about its own axis.

Magnetism - UCL

A handful of matter has approximately 10^{26} atoms and ions, each with its magnetic dipole moment. If no external magnetic field is present, the magnetic dipoles are randomly oriented—as many are pointed up as down, as many are pointed east as west, and so on.

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Chapter 3 Key Terms. Scott Foresman—Electricity and Magnetism Booklet Chapter 3—Using Electricity and Magnetism KEY TERMS. STUDY. PLAY. electromagnetism. the relationship between electricity and

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magnetism. solenoid. a coil of wire with a current that acts as a bar magnet.
electromagnet.

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11 magnetic domain group of atoms whose
magnetic poles are aligned magnetism
properties of magnets and their interactions
magnetic poles places on a magnet where the

Electricity and Magnetism Terms - Shmoop

Key Terms. electric charge: A quantum number that determines the electromagnetic interactions of some subatomic particles; by convention, the electron has an electric charge of -1 and the proton $+1$, and quarks have fractional charge. mass: The quantity of matter which a body contains, irrespective of its bulk or volume. It is one of four ...

Physics—Magnetism and Magnetic Fields Key Terms - Quizlet

Group of atoms in a magnetic material in which the magnetic poles of the atoms are aligned in the same direction.

Electromagnetic Force The attractive or repulsive force between electric charges and magnets.

Magnetism - Wikipedia

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MAGNETIC SATURATION: The maximum amount of magnetic energy that can be absorbed by a magnetic substance. **MAXIMUM ENERGY PRODUCT, BH max:** The point on the BH curve where the product of B and H is a maximum and the required volume of magnet material required to project a given energy into its surroundings is a minimum.

Magnetism (Key Terms) Flashcards | Quizlet

A wire carrying a DC current or permanent magnet produces magnetostatic (Stationery) field and its magnitude and direction remain same. While Alternating current or Pulsating DC current carrying conductor creates alternating magnetic field which continuously change their direction and magnitude.

Magnetic Terms definition with Formulas - Electrical ...

When a wire is moved in a magnetic field, the field induces a current in the wire. Conversely, a magnetic field is produced by an electric charge in motion.

Key Terms Magnetism And Its

Key Terms: Magnetism and Its Uses. STUDY. Flashcards. Learn. Write. Spell. Test. PLAY. Match. Gravity. Created by. ivanchav. Terms in this set (11) Magnetic Domain. Group of atoms whose magnetic poles are aligned. Magnetism. Properties of magnets and their interactions. Magnetic Poles. Places on a

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magnet where the magnetic field is the strongest.

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