

Notes - Magnets and Magnetic Fields

Why are some objects magnetic while others are not? What is the source of magnetism in magnetic materials? Modern quantum mechanics says that the permanent magnetism in a magnetic iron bar is produced by electron spins. In an atom, we can imagine that each spinning electron produces a magnetic field similar to a loop of current.

Individual electrons are usually arranged in pairs with their spins pointing in opposite directions, one with an up spin and the other with a down spin, such that their magnetic fields cancel each other and the material is not magnetic. Copper exhibits this behavior. In some materials the magnetic fields produced by individual electrons spins do not cancel each other and each atom has a magnetic moment. These moments produce regions in the material called magnetic domains. These materials are said to be ferromagnetic. The most common ferromagnetic materials are iron, nickel and cobalt.

When there is no external magnetic field, the magnetic domains of the ferromagnetic material are randomly oriented and the material is not magnetic (Figure A). If the material is placed in an external magnetic field, the orientation of the magnetic domains becomes aligned with the external field. As a result, the magnetic moments point in the same direction and the material becomes magnetized (Figure B).



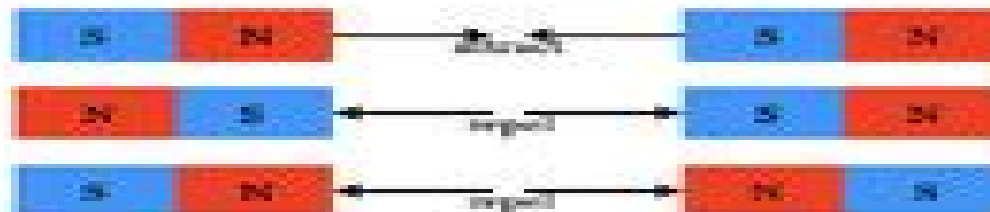
Figure A



Figure B

Any magnet, whether it is in the shape of a bar or a bar, has two poles. The poles of a magnet are labeled north and south. This terminology comes from the early use of magnets to determine directions. When two magnets are brought close to each other, each exerts a force on the other. They can either attract or repel each other.

Each pole of a magnet is attracted to the opposite pole of the other magnet and is repelled by the same pole of the other magnet.



If you cut a magnet into two pieces, you do not get isolated north and south poles. You simply get two smaller magnets, each with its own north and south pole.

Magnets And Electromagnets Phet Lab Answers

Charles Reginald Underhill



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