

Magnets & batteries

Dorling Kindersley - Magnets

Description: Uses simple observations and experiments to explore the properties of magnets, batteries, and electricity.

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 Tags: #Neodymium #and #Rare #Earth
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 Notes: Includes index.
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Neodymium and Rare Earth Magnets

Powerful magnets for heavy duty applications include , , and . The maximum recorded speed of a maglev train is 581 kilometers per hour 361 mph. These magnets are arranged in a stack with alternating magnetic poles facing up N, S, N, S.



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Magnet

The tells which direction positively-charged current flows.

Magnet

In units, the magnetic moment is specified in terms of A·m² amperes times meters squared. Microscopic currents in atoms inside the material are generally canceled by currents in neighboring atoms, so only the surface makes a net contribution; shaving off the outer layer of a magnet will not destroy its magnetic field, but will leave a new surface of uncancelled currents from the circular currents throughout the material. This attraction is hundreds of thousands of times weaker than that of ferromagnetic materials, so it can only be detected by using sensitive instruments or using extremely strong magnets.

Magnets

As the coil moves through the magnetic field, a voltage is across the coil. The earliest known surviving descriptions of magnets and their properties are from Greece, India, and China around 2500 years ago. They constitute an important layer of protection for the process equipment and for the final consumer.

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