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# Section 20 1

## Magnets And

## Magnetic Fields

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 Magnets and Magnetic  
 Field ...in section 20-2,  
 magnetic flux turns out  
 to play a crucial role in  
 the generation of  
 electricity. Magnetic  
 flux is a measure of the  
 number of magnetic  
 field lines passing  
 through an area. The  
 symbol we use for flux  
 is the Greek letter  
 capital phi,  $\Phi$ .The  
 equation for magnetic  
 flux is:20-1 Magnetic  
 Flux - Boston  
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 PhysicsSECTION 1  
 Name Class Date  
 Magnets and  
 Magnetism continued  
 MAGNETIC FIELDS A  
 magnetic field exists in

the region around a  
 magnet in which  
 magnetic forces can  
 act. We can show the  
 shape of a magnetic  
 field with lines drawn  
 from the north pole of  
 a magnet to the south  
 pole. Magnetic field  
 lines show the shape of  
 the magnetic field  
 around a magnet.2  
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 ...Magnetism Section 1  
 Magnetic Fields,  
 continued • Magnets  
 are sources of  
 magnetic fields. •  
 Moving charges create

magnetic fields. •  
 magnetic domains:  
 groups of atoms that  
 all line up the same  
 way and form small,  
 magnetized regions  
 within a material •  
 Magnetic field lines are  
 used to represent a  
 magnetic field. Section  
 1: Magnets and  
 Magnetic Fields Section  
 21.1 Print • Laboratory  
 Manual ... magnetic  
 compass Class Time 20  
 minutes Procedure  
 Arrange two magnets  
 as shown in either part  
 of Figure 3. Have  
 students place the  
 compass at different  
 positions about 1–2 cm  
 away from the  
 magnets and sketch  
 the direction in which  
 the compass needle  
 points for each Section  
 21.1 21.1 Magnets and  
 Magnetic Fields The  
 ends of a search coil  
 having 20 turns, area  
 of cross-section 1 cm'

and resistance 2 ohms  
 are connected to a  
 ballistic galvanometer  
 of resistance 40 ohms.  
 If the plane of search  
 coil is inclined at  $30^\circ$   
 to the direction of a  
 magnetic field of  
 intensity  $1.5 \text{ Wb/m}^2$ ,  
 coil is quickly pulled  
 out of the field to a  
 region of zero  
 magnetic field,  
 calculate the charge  
 passed through the  
 galvanometer. The ends  
 of a search coil having  
 20 turns, area of cross  
 ... Example 1.  
 Calculating Magnetic  
 Force on a Current-  
 Carrying Wire: A Strong  
 Magnetic Field.  
 Calculate the force on  
 the wire shown in  
 Figure 1, given  $B =$   
 $1.50 \text{ T}$ ,  $l = 5.00 \text{ cm}$ ,  
 and  $I = 20.0 \text{ A}$ .  
 Strategy Magnetic  
 Force on a Current-  
 Carrying Conductor |  
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Fields Answer SheetsThe current  $I = 20.0 \text{ A}$  is given, and  $q = -1.60 \times 10^{-19} \text{ C}$  is the charge of an electron. We can calculate the area of a cross-section of the wire using the formula  $A = \pi r^2$ , where  $r$  is one-half the given diameter,  $2.053 \text{ mm}$ .20.1 Current - College Physics | OpenStax(a)  $1.67 \text{ k}\Omega$  (b) If a 50 times larger resistance existed, keeping the current about the same, the power would be increased by a factor of about 50 (based on the equation  $P = I^2 R$ ), causing much more energy to be transferred to the skin,

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 the foundation of  
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 equations provide a  
 mathematical model  
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 in section 20-2,  
 magnetic flux turns out  
 to play a crucial role in  
 the generation of  
 electricity. Magnetic  
 flux is a measure of the  
 number of magnetic  
 field lines passing  
 through an area. The  
 symbol we use for flux  
 is the Greek letter  
 capital phi,  $\Phi$ .The  
 equation for magnetic  
 flux is:

**The ends of a search  
 coil having 20 turns,  
 area of cross ...**

SECTION 1 Name Class  
 Date Magnets and  
 Magnetism continued  
 MAGNETIC FIELDS A  
 magnetic field exists in  
 the region around a  
 magnet in which  
 magnetic forces can

act. We can show the shape of a magnetic field with lines drawn from the north pole of a magnet to the south pole. Magnetic field lines show the shape of the magnetic field around a magnet.

### *Section 20 1 Magnets And*

The ends of a search coil having 20 turns, area of cross-section 1 cm<sup>2</sup> and resistance 2 ohms are connected to a ballistic galvanometer of resistance 40 ohms. If the plane of search coil is inclined at 30° to the direction of a magnetic field of intensity 1.5 Wb/m<sup>2</sup>, coil is quickly pulled out of the field to a region of zero magnetic field, calculate the charge passed through the galvanometer.

### **Section 1: Magnets and Magnetic Fields**

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Maxwell's equations are a set of coupled partial differential equations that, together with the Lorentz force law, form the foundation of classical electromagnetism, classical optics, and electric circuits. The equations provide a



mathematical model for electric, optical, and radio technologies, such as power generation, electric motors, wireless communication, lenses, radar etc.

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(a)  $1.67 \text{ k}\Omega$   $1.67 \text{ k}\Omega$  size  $12\{1 \text{ "67" k" \%OMEGA } \}$  (b) If a 50 times larger resistance existed, keeping the current about the same, the power would be increased by a factor of about 50 (based on the equation  $P = I^2 R$   $P = I^2 R$  size  $12\{P = I^2 R\}$   $\{ \}$ ), causing much more energy to be transferred to the skin, which could cause serious burns.

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Example 1. Calculating Magnetic Force on a Current-Carrying Wire:

A Strong Magnetic Field. Calculate the force on the wire shown in Figure 1, given  $B = 1.50 \text{ T}$ ,  $l = 5.00 \text{ cm}$ , and  $I = 20.0 \text{ A}$ . Strategy

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magnets as shown in either part of Figure 3. Have students place the compass at different positions about 1-2 cm away from the magnets and sketch the direction in which the compass needle points for each

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The current  $I = 20.0 \text{ A}$   $= 20.0 \text{ A}$  is given, and  $q = -1.60 \times 10^{-19} \text{ C}$   $q = -1.60 \times 10^{-19} \text{ C}$  is the charge of an electron. We can calculate the area of a cross-section of the wire using the formula

$A = \pi r^2$ ,  $A = \pi r^2$ ,  
where  $r$  is one-half  
the given diameter,  
2.053 mm.

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continued • Magnets  
are sources of  
magnetic fields. •  
Moving charges create  
magnetic fields. •  
magnetic domains:  
groups of atoms that  
all line up the same  
way and form small,  
magnetized regions  
within a material •  
Magnetic field lines are  
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