

## Calculating the Magnetic Field Due to a Current

Figure 29-1 shows a wire of arbitrary shape carrying a current  $i$ . We want to find the magnetic field  $\vec{B}$  at a nearby point  $P$ . We first mentally divide the wire into differential elements  $ds$  and then define for each element a length vector  $d\vec{s}$  that has length  $ds$  and whose direction is the direction of the current in  $ds$ . We can then define a differential *current-length element* to be  $i d\vec{s}$ ; we wish to calculate the field  $d\vec{B}$  produced at  $P$  by a typical current-length element. From experiment we find that magnetic fields, like electric fields, can be superimposed to find a net field. Thus, we can calculate the net field  $\vec{B}$  at  $P$  by summing, via integration, the contributions  $d\vec{B}$  from all the current-length elements. However, this summation is more challenging than the process associated with electric fields because of a complexity; whereas a charge element  $dq$  producing an electric field is a scalar, a current-length element  $i d\vec{s}$  producing a magnetic field is a vector, being the product of a scalar and a vector.

**Magnitude.** The magnitude of the field  $d\vec{B}$  produced at point  $P$  at distance  $r$  by a current-length element  $i d\vec{s}$  turns out to be

$$dB = \frac{\mu_0}{4\pi} \frac{i ds \sin \theta}{r^2}, \quad (29-1)$$

where  $\theta$  is the angle between the directions of  $d\vec{s}$  and  $\hat{r}$ , a unit vector that points from  $ds$  toward  $P$ . Symbol  $\mu_0$  is a constant, called the *permeability constant*, whose value is defined to be exactly

$$\mu_0 = 4\pi \times 10^{-7} \text{ T} \cdot \text{m/A} \approx 1.26 \times 10^{-6} \text{ T} \cdot \text{m/A}. \quad (29-2)$$

**Direction.** The direction of  $d\vec{B}$ , shown as being into the page in Fig. 29-1, is that of the cross product  $d\vec{s} \times \hat{r}$ . We can therefore write Eq. 29-1 in vector form as

$$d\vec{B} = \frac{\mu_0}{4\pi} \frac{i d\vec{s} \times \hat{r}}{r^2} \quad (\text{Biot-Savart law}). \quad (29-3)$$

This vector equation and its scalar form, Eq. 29-1, are known as the **law of Biot and Savart** (rhymes with “Leo and bazaar”). The law, which is experimentally deduced, is an inverse-square law. We shall use this law to calculate the net magnetic field  $\vec{B}$  produced at a point by various distributions of current.

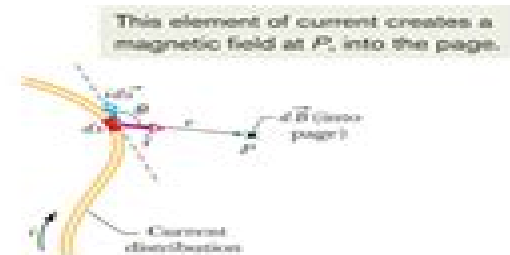
Here is one easy distribution: If current in a wire is either directly toward or directly away from a point  $P$  of measurement, can you see from Eq. 29-1 that the magnetic field at  $P$  from the current is simply zero (the angle  $\theta$  is either  $0^\circ$  for *toward* or  $180^\circ$  for *away*, and both result in  $\sin \theta = 0$ )?

### Magnetic Field Due to a Current in a Long Straight Wire

Shortly we shall use the law of Biot and Savart to prove that the magnitude of the magnetic field at a perpendicular distance  $R$  from a long (infinite) straight wire carrying a current  $i$  is given by

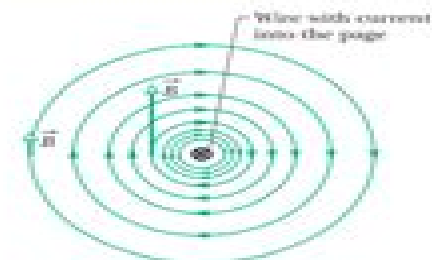
$$B = \frac{\mu_0 i}{2\pi R} \quad (\text{long straight wire}). \quad (29-4)$$

The field magnitude  $B$  in Eq. 29-4 depends only on the current and the perpendicular distance  $R$  of the point from the wire. We shall show in our derivation that the field lines of  $\vec{B}$  form concentric circles around the wire, as Fig. 29-2 shows



**Figure 29-1** A current-length element  $i d\vec{s}$  produces a differential magnetic field  $d\vec{B}$  at point  $P$ . The green  $\times$  (the tail of an arrow) at the dot for point  $P$  indicates that  $d\vec{B}$  is directed into the page there.

The magnetic field vector at any point is tangent to a circle.



**Figure 29-2** The magnetic field lines produced by a current in a long straight wire form concentric circles around the wire. Here the current is into the page, as indicated by the  $\times$ .

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