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 ds' 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 ds'; 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 ds' producing a magnetic field is a vector, being the product of a scalar and a vector.

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

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

where θ is the angle between the directions of $d\theta'$ and \hat{r} , a unit vector that points from ds toward P. Symbol μ_0 is a constant, called the permeability constant, whose value is defined to be exactly

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

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

$$d\vec{B} = \frac{\mu_0}{4\pi} \frac{i \, d\vec{x} \times \hat{r}}{r^2}$$
 (Biot-Savart law). (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 bacaar"). The law, which is experimentally deduced, is an inverse-square law. We shall use this law to calculate the net magnetic field 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 θ is either 0° for toward or 180° 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

$$B = \frac{\mu_0 I}{2 \pi R}$$
 (long straight wire). (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 \overline{B} form concentric circles around the wire, as Fig. 29-2 shows

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 ×.

This element of current creates a magnetic field at P, into the page.



Figure 28-1. A current-length element $i d \vec{x}$ 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.



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