

Experiment 9: Biot -Savart Law with Helmholtz Coil

Introduction

In this lab we will study the magnetic fields of circular current loops using the Biot-Savart law. The Biot-Savart Law states the magnetic field \mathbf{B} from a wire length $d\mathbf{s}$, carrying a steady current I is given by

$$\mathbf{B} = \frac{\mu_0}{4\pi} \int \frac{I d\mathbf{s} \times \mathbf{r}}{r^3} \quad (1)$$

where μ_0 is the permeability of free space and \mathbf{r} is the displacement vector from the current element $d\mathbf{s}$ to a point P where we wish to evaluate the magnetic field. This equation allows us to calculate the magnetic fields for arbitrary current distributions such as circular or rectangular loops. We will only focus on circular loops in this lab.

The magnitude of the magnetic field B along an axis through the center of a circular loop carrying steady current I (see Fig. 1) can be expressed as

$$B(z) = \frac{\mu_0 I R^2 N}{2(R^2 + z^2)^{3/2}} \quad (2)$$

where R is the radius of the loop and N is the number of turns in the current loop. The current loop has magnetic field lines similar to that of a bar magnet, as shown in Figure 2. The direction of the magnetic field at the center is perpendicular to the plane of the loop, and the direction is given by the *right hand rule* for a current loop: the fingers curl around the loop in the direction of the current, the thumb points in the direction of the magnetic field at the center of the loop. At the center of the loop ($N=1$), when $z=0$, the magnetic field is given by

$$B = \frac{\mu_0 I}{2R} \quad (3)$$

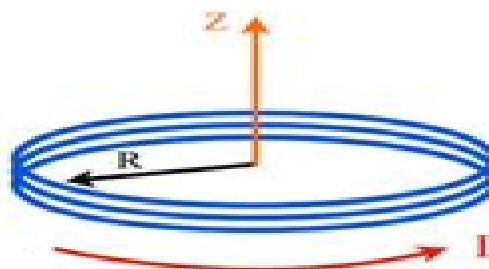


Figure 1: A circular loop of wire carrying a current I . The magnetic field is given along the positive z -axis.

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M. Wellner

A decorative graphic consisting of a red semi-circle with a white center, positioned to the right of the author's name.

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