Example 23.2 Magnetic field of a current segment

A copper wire carries a steady 125-A current to an electroplating tank (Fig. 28.4). Find the magnetic field due to a 1.0-cm segment of this wire at a point 1.2 m away from it, if the point is (a) point P_L , straight out to the side of the segment, and (b) point P_2 , in the 33-plane and on a line at 30° to the segment.

SOLUTION

IDENTIFY and SET 0P: Although Eqs. (28.5) and (28.6) apply only to infinitesimal current elements, we may use either of them here EXECUTE: (a) At point P_0 , $\hat{r} = \hat{r}$, so

$$\vec{B} = \frac{\mu_0}{4\pi} \frac{I d\vec{I} \times \hat{r}}{r^2} = \frac{\mu_0}{4\pi} \frac{I dl(-\hat{t}) \times \hat{J}}{r^2} = -\frac{\mu_0}{4\pi} \frac{I dl}{r^2} \hat{k}$$

$$= -(10^{-7} \text{ T} \cdot \text{m/A}) \frac{(125 \text{ A})(1.0 \times 10^{-2} \text{ m})}{(1.2 \text{ m})^2} \hat{k}$$

$$= -(8.7 \times 10^{-8} \text{ T}) \hat{k}$$

The direction of \vec{B} at P_i is into the xy-plane of Fig. 28.4.

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