Z= TXB Magnet

$$\begin{array}{ll}
\overrightarrow{\mathcal{L}} = \overrightarrow{\mu} \times \overrightarrow{B} & -\mu_{y} B_{x} \\
\Rightarrow \mu_{\perp} B \Rightarrow \overleftarrow{\mathcal{L}} = \cancel{\hat{\gamma}} I A, \quad \overrightarrow{B}_{\perp} = -\cancel{\hat{\chi}} (\overrightarrow{B} \cdot \cancel{\hat{\gamma}}) \\
\Rightarrow \cancel{\mathcal{L}} = \cancel{\hat{\gamma}} I A, \quad \overrightarrow{B}_{\perp} = -\cancel{\hat{\chi}} (\overrightarrow{B} \cdot \cancel{\hat{\gamma}}) \\
= \cancel{\hat{\chi}} \times \overrightarrow{B}_{\perp} = \cancel{\hat{\chi}} \times \overrightarrow{B}_{\perp} = -\overrightarrow{\hat{\chi}} (\overrightarrow{B} \cdot \cancel{\hat{\chi}}) = I A B_{x} (\cancel{\hat{\gamma}} \times \cancel{\hat{\chi}}) = I A B_{x} (\cancel{\hat{\chi}} \times \cancel{\hat$$

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