

5.12 To find the vector potential at P due to a current-carrying wire we use

$$\vec{\mathbf{A}}(\vec{r}) = \frac{\mu_0}{4\pi} \int \frac{\vec{\mathbf{J}}(r') d\tau'}{|\mathbf{R}|} \quad \text{or} \quad \vec{\mathbf{A}}(\vec{r}) = \frac{\mu_0}{4\pi} \int \frac{\vec{\mathbf{I}}(r') dl'}{|\mathbf{R}|}$$

What is the *direction* of the infinitesimal contribution $d\mathbf{A}(P)$ created by current in $d\mathbf{l}$?

A) Up the page

P
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B) Directly away from $d\mathbf{l}$
(in the plane of the page)

C) Into the page

D) Out of the page

E) Some other direction

