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In Cartesian coordinates $\vec{r} = \vec{r}(x, y, z)$; in cylindrical polar coordinates $\vec{r} = \vec{r}(\hat{r}, \theta, z)$; in spherical polar coordinates $\vec{r} = \vec{r}(r, \theta, \phi)$; in cases with radial symmetry $\vec{r} = \vec{r}(r)$.

\vec{A} is a vector function whose components are scalar functions of the position coordinates: in Cartesian

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coordinates $A = iA_x + jA_y + kA_z$,
where A_x, A_y, A_z .

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