

# Notes on Electrodynamics

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# 1 Potentials

## 1.1 Multipole Expansion

$$\boldsymbol{r} = |\mathbf{r} - \mathbf{r}'|$$

Where  $\boldsymbol{r}$  denotes the vector from a source point  $\mathbf{r}'$  to a field point  $\mathbf{r}$ .