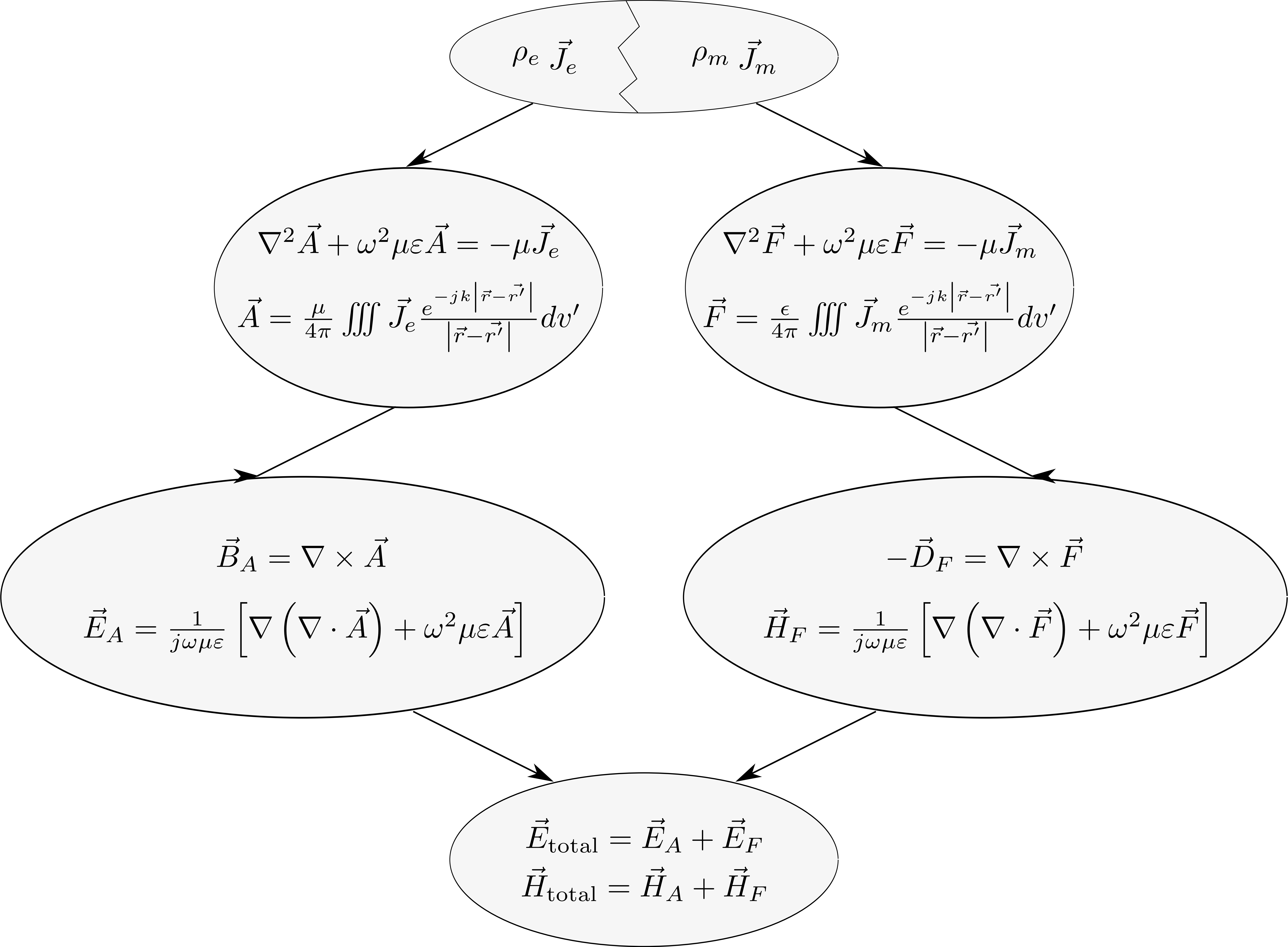

$\rho_e \ \vec{J}_e$
$\rho_m \ \vec{J}_m$
$\nabla^2 \vec{A} + \omega^2 \mu \varepsilon \vec{A} = -\mu \vec{J}_e$
$\vec{A} = \frac{\mu}{4\pi} \iiint \vec{J}_e \frac{e^{-jk\left|\vec{r}-\vec{r'}\right|}}{\left|\vec{r}-\vec{r'}\right|} dv'$
$\nabla^2 \vec{F} + \omega^2 \mu \varepsilon \vec{F} = -\mu \vec{J}_m$
$\vec{F} = \frac{\epsilon}{4\pi} \iiint \vec{J}_m \frac{e^{-jk\left|\vec{r}-\vec{r'}\right|}}{\left|\vec{r}-\vec{r'}\right|} dv'$
$\vec{B}_A = \nabla \times \vec{A}$
$\vec{E}_A = \frac{1}{j\omega\mu\varepsilon} \left[\nabla \left(\nabla \cdot \vec{A}\right) + \omega^2 \mu \varepsilon \vec{A}\right]$
$-\vec{D}_F = \nabla \times \vec{F}$
$\vec{H}_F = \frac{1}{j\omega\mu\varepsilon} \left[\nabla \left(\nabla \cdot \vec{F}\right) + \omega^2 \mu \varepsilon \vec{F}\right]$
$\vec{E}_{\text{total}} = \vec{E}_A + \vec{E}_F$
$\vec{H}_{\text{total}} = \vec{H}_A + \vec{H}_F$