## Maxwell's Equations

$$
\begin{aligned}
\nabla \cdot \mathbf{E} & =\frac{\rho}{\varepsilon_{0}} \\
\nabla \cdot \mathbf{B} & =0 \\
\nabla \times \mathbf{E} & =-\frac{\partial \mathbf{B}}{\partial t} \\
\nabla \times \mathbf{B} & =\mu_{0} \mathbf{J}+\mu_{0} \varepsilon_{0} \frac{\partial \mathbf{E}}{\partial t}
\end{aligned}
$$

I told you someone actually uses this stuff!

