Theory of electromagnetic methods cheatsheet

Basics

Maxwell

$$\nabla \times \mathbf{E} + i\omega\mathbf{B} = \mathbf{0}$$

$$\nabla \times \mathbf{H} - i\omega\mathbf{D} = \mathbf{j}$$

$$\nabla \cdot \mathbf{B} = 0$$

$$\nabla \cdot \mathbf{D} = \rho_E$$