

Foundations of Classical Electrodynamics

- 1) There is more to Maxwell's *macroscopic* equations than meets the eye. Take them seriously. Make them the starting point of every investigation in classical electrodynamics.
- 2) The most important thing you will need to know about EM energy is that the Poynting vector $\mathbf{S}(\mathbf{r}, t) = \mathbf{E} \times \mathbf{H}$ is the rate of flow of energy (per unit area per unit time). Everything else about energy follows from this postulate in conjunction with Maxwell's macroscopic equations.
- 3) Momentum density of EM fields is $\mathbf{p}(\mathbf{r}, t) = \mathbf{S}/c^2$. This is *always* true, in vacuum as well as in material media, irrespective of the nature of the media.
- 4) Angular momentum density of EM fields is always $\mathbf{L}(\mathbf{r}, t) = \mathbf{r} \times \mathbf{S}/c^2$. This is true of spin as well as orbital angular momentum of EM waves.
- 5) If you use the Lorentz force law $\mathbf{f} = q(\mathbf{E} + \mathbf{v} \times \mathbf{B})$, you will get into trouble: you will find that momentum is not conserved and special relativity is violated. Use the **Einstein-Laub law** instead!

Foundations Of Electrodynamics

Jiyuan Zhang



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