

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

Annelies Wilder-Smith



Foundations Of Electrodynamics:

The Enigmatic Realm of **Foundations Of Electrodynamics**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Foundations Of Electrodynamics** a literary masterpiece penned with a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those who partake in its reading experience.

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