

Chapter 7. Plane Electromagnetic Waves and Wave Propagation

7.1 Plane Monochromatic Waves in Nonconducting Media

One of the most important consequences of the Maxwell equations is the equations for electromagnetic wave propagation in a linear medium. In the absence of free charge and current densities the Maxwell equations are

$$\begin{aligned}\nabla \cdot \mathbf{D} &= 0 & \nabla \times \mathbf{H} &= \frac{\partial \mathbf{D}}{\partial t} \\ \nabla \cdot \mathbf{B} &= 0 & \nabla \times \mathbf{E} &= -\frac{\partial \mathbf{B}}{\partial t}\end{aligned}\quad (7.1)$$

The wave equations for $\mathbf{E}$ and $\mathbf{B}$ are derived by taking the curl of $\nabla \times \mathbf{H}$ and $\nabla \times \mathbf{E}$

$$\begin{aligned}\nabla \times \nabla \times \mathbf{E} &= -\nabla \times \frac{\partial \mathbf{B}}{\partial t} \\ \nabla \times \nabla \times \mathbf{H} &= \nabla \times \frac{\partial \mathbf{D}}{\partial t}\end{aligned}\quad (7.2)$$

For uniform isotropic linear media we have $\mathbf{D} = \varepsilon \mathbf{E}$ and $\mathbf{B} = \mu \mathbf{H}$, where ε and μ are in general complex functions of frequency ω . Then we obtain

$$\begin{aligned}\nabla \times \nabla \times \mathbf{E} &= -\varepsilon \mu \frac{\partial^2 \mathbf{E}}{\partial t^2} \\ \nabla \times \nabla \times \mathbf{B} &= -\varepsilon \mu \frac{\partial^2 \mathbf{B}}{\partial t^2}\end{aligned}\quad (7.3)$$

Since $\nabla \times \nabla \times \mathbf{E} = \nabla(\nabla \cdot \mathbf{E}) - \nabla^2 \mathbf{E} = -\nabla^2 \mathbf{E}$ and, similarly, $\nabla \times \nabla \times \mathbf{B} = -\nabla^2 \mathbf{B}$,

$$\begin{aligned}\nabla^2 \mathbf{E} &= \varepsilon \mu \frac{\partial^2 \mathbf{E}}{\partial t^2} \\ \nabla^2 \mathbf{B} &= \varepsilon \mu \frac{\partial^2 \mathbf{B}}{\partial t^2}\end{aligned}\quad (7.4)$$

Monochromatic waves may be described as waves that are characterized by a single frequency. Assuming the fields with harmonic time dependence $e^{-i\omega t}$, so that $\mathbf{E}(\mathbf{x}, t) = \mathbf{E}(\mathbf{x})e^{-i\omega t}$ and $\mathbf{B}(\mathbf{x}, t) = \mathbf{B}(\mathbf{x})e^{-i\omega t}$ we get the Helmholtz wave equations

$$\begin{aligned}\nabla^2 \mathbf{E} + \varepsilon \mu \omega^2 \mathbf{E} &= 0 \\ \nabla^2 \mathbf{B} + \varepsilon \mu \omega^2 \mathbf{B} &= 0\end{aligned}\quad (7.5)$$

Chapter 7 Plane Electromagnetic Waves An Historical

Charles Henry William Gerhardi



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An Introduction to Classical Electromagnetic Radiation Glenn S. Smith,1997-08-13 This book provides a thorough description of classical electromagnetic radiation starting from Maxwell's equations and moving on to show how fundamental concepts are applied in a wide variety of examples from areas such as classical optics antenna analysis and electromagnetic scattering Throughout the author interweaves theoretical and experimental results to help give insight into the physical and historical foundations of the subject A key feature of the book is that pulsed and time harmonic signals are presented on an equal footing Mathematical and physical explanations are enhanced by a wealth of illustrations over 300 and the book includes more than 140 problems It can be used as a textbook for advanced undergraduate and graduate courses in electrical engineering and physics and will also be of interest to scientists and engineers working in applied electromagnetics A solutions manual is available on request for lecturers adopting the text

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Modern Electromagnetic Scattering Theory with Applications Andrey V. Osipov,Sergei A. Tretyakov,2017-04-17 This self contained book gives fundamental knowledge about scattering and diffraction of electromagnetic waves and fills the gap between general electromagnetic theory courses and collections of engineering formulas The book is a tutorial for advanced students learning the mathematics and physics of electromagnetic scattering and curious to know how engineering concepts and techniques relate to the foundations of electromagnetics

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Electromagnetic Waves Carlo G. Someda,1998-05-12 This book provides a comprehensive treatment of electromagnetic waves The author's approach is thoroughly modern and unlike many others this text offers a unified view of electromagnetic waves and their applications in telecommunications radar and photonics The extensive coverage of Electromagnetic Waves begins with Maxwell's equations and takes students on the journey from the wave and Helmholtz equations through polarization plane waves and wave beams and packets to antennas transmission lines and waveguides Completing the treatment are chapters devoted to diffraction and an introduction to the theory of coherence The author strikes an effective balance of the teach through concepts and teach by example approaches The book is filled with exercises current applications and exercises that solidify students understanding and bring relevance to the material It forms an outstanding text for senior undergraduates and graduate level students in electrical engineering and physics

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