

8.1 Introduction

- We will discuss about electromagnetic waves, their properties and characteristics, and also their practical uses in our day-to-day life.
- One of the most important applications of electromagnetic waves is in communication.
- Some of the important applications of electromagnetic waves are:-
 1. We are able to see everything around us because of electromagnetic waves.
 2. It helps in aircraft navigation and helps the pilot for the smooth take-off and landing of aeroplanes. It also helps to calculate the speed of the aeroplane.
 3. In the medical field it has got very important applications. For example: - In laser eye surgery, in x-rays.
 4. In radio and television broadcasting signals. These signals are transmitted by electromagnetic waves.
 5. Electromagnetic waves helps in determining the speed of the passing vehicles.
 6. They are used in electronic appliances like T.V. remotes, remote cars, LED TV, microwave ovens etc.
 7. Voice transmission in mobile phones is possible because of electromagnetic waves.

What are Electromagnetic Waves?

- Electromagnetic (EM) waves are the waves which are related to both electricity and magnetism.
- Electromagnetic (EM) waves are the waves which are coupled time varying electric and magnetic fields that propagate in space.
- Waves associated with electricity and magnetism and as they are waves so they will propagate in the space.
- When the electric and magnetic fields combine together and when they are varying with time they both will give rise to electromagnetic waves.
- Electromagnetic equations emerged from Maxwell's equations.
- Maxwell found these EM waves have so many special properties which can be used for many practical purposes.
- Time varying electric field + Time varying magnetic field = Electromagnetic waves.

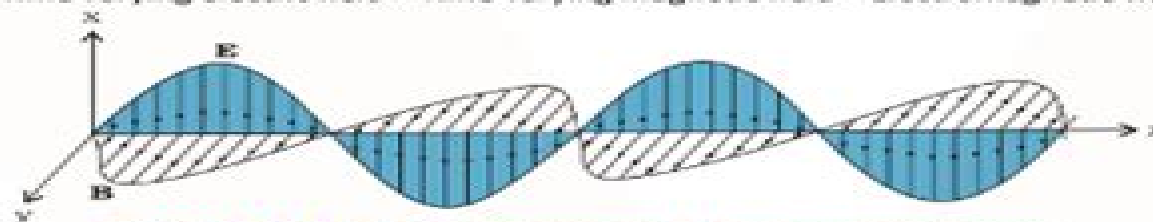


FIGURE 8.4 A linearly polarised electromagnetic wave, propagating in the z -direction with the oscillating electric field $\mathbf{E}$ along the x -direction and the oscillating magnetic field $\mathbf{B}$ along the y -direction.

Maxwell's Experiments

- Maxwell proposed that the time varying electric field can generate magnetic field.
- Time varying magnetic field generates electric field (Faraday-Lenz law).
 1. According to Faraday Lenz law an EMF is induced in the circuit whenever the amount of magnetic flux linked with a circuit changes.
 2. As a result electric current gets generated in the circuit which has an electric field associated with it.

Notes Of Electromagnetic Wave Guide

Marcel A. Müller



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Table of Contents Notes Of Electromagnetic Wave Guide

1. Understanding the eBook Notes Of Electromagnetic Wave Guide
 - The Rise of Digital Reading Notes Of Electromagnetic Wave Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Notes Of Electromagnetic Wave Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Notes Of Electromagnetic Wave Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Notes Of Electromagnetic Wave Guide
 - Personalized Recommendations
 - Notes Of Electromagnetic Wave Guide User Reviews and Ratings
 - Notes Of Electromagnetic Wave Guide and Bestseller Lists
5. Accessing Notes Of Electromagnetic Wave Guide Free and Paid eBooks
 - Notes Of Electromagnetic Wave Guide Public Domain eBooks
 - Notes Of Electromagnetic Wave Guide eBook Subscription Services
 - Notes Of Electromagnetic Wave Guide Budget-Friendly Options

6. Navigating Notes Of Electromagnetic Wave Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Notes Of Electromagnetic Wave Guide Compatibility with Devices
 - Notes Of Electromagnetic Wave Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Notes Of Electromagnetic Wave Guide
 - Highlighting and Note-Taking Notes Of Electromagnetic Wave Guide
 - Interactive Elements Notes Of Electromagnetic Wave Guide
8. Staying Engaged with Notes Of Electromagnetic Wave Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Notes Of Electromagnetic Wave Guide
9. Balancing eBooks and Physical Books Notes Of Electromagnetic Wave Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Notes Of Electromagnetic Wave Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Notes Of Electromagnetic Wave Guide
 - Setting Reading Goals Notes Of Electromagnetic Wave Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Notes Of Electromagnetic Wave Guide
 - Fact-Checking eBook Content of Notes Of Electromagnetic Wave Guide
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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