

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.

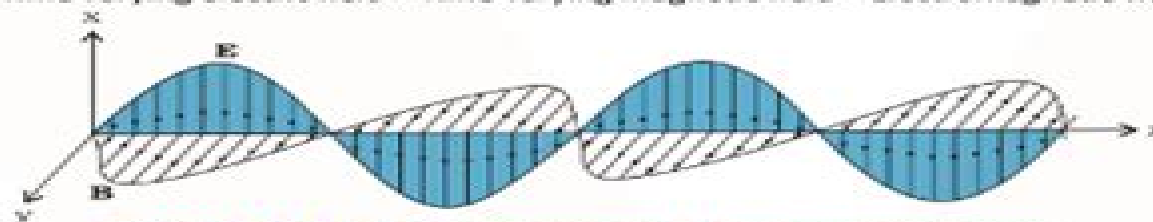


FIGURE 8.4 A linearly polarised electromagnetic wave, propagating in the z -direction with the oscillating electric field \mathbf{E} along the x -direction and the oscillating magnetic field \mathbf{B} along the y -direction.

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.

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