Propagation of Electromagnetic wave part1 Lecture-18

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Defination

 An electromagnetic wave is a type of wave (a wave carries energy through a mediumthough electromagnetic waves seemingly need no medium as the propagate through vacuums) that moves at speed c, or the speed of light (the speed of light ≈ 300,000 km/s in free space).

Propagation of an Electromagnetic Wave

 Electromagnetic waves are waves which can travel through the vacuum of outer space.

 Mechanical waves, unlike electromagnetic waves, require the presence of a material medium in order to transport their energy from one location to another. Sound waves are examples of mechanical waves while light waves are examples of electromagnetic waves.



Mechanical waves and Electromagnetic waves

- Mechanical waves require the presence of a material medium in order to transport their energy from one location to another
- Electromagnetic waves are waves which can travel through the vacuum of outer space.

