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from particle to particle, electromagnetic waves travel by transferring energy between vibrating electric fields and magnetic fields. Section 1: What are electromagnetic waves? In the differential form formulation on arbitrary space times, $F = 1/2 F \alpha dx \alpha \wedge dx \beta$ is the electromagnetic tensor considered as a 2-form, $A = A \alpha dx \alpha$ is the potential 1-form, $\star J$ is the current 3-form, d is the exterior derivative, and \star is the Hodge star on forms defined (up to its orientation, i.e. its sign) by the Lorentzian metric of spacetime.

Electromagnetic waves are waves that consist of vibrating electric and magnetic fields. Like other waves, electromagnetic waves transfer energy from one place to another. The transfer of energy by electromagnetic waves is called electromagnetic radiation. Electromagnetic waves can transfer energy through matter or across empty space.

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A.) an electromagnetic waves occur when electric and magnetic fields vibrate at right angles to each other B.) a magnetic field is surrounded by and electric current C.) changing electric and magnetic fields regenerate each other D.) electromagnetic waves are produced when an electric charge vibrates

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In the differential form formulation on arbitrary space times, $F = 1/2 F_{\alpha\beta} dx^\alpha \wedge dx^\beta$ is the electromagnetic tensor considered as a 2-form, $A = A_\alpha dx^\alpha$ is the potential 1-form, $\nabla \cdot \mathbf{j}$ is the current 3-form, d is the exterior derivative, and \star is the Hodge star on forms defined (up to its orientation, i.e. its sign) by the Lorentzian metric of spacetime.

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Electromagnetic waves are transverse waves with a wide range of properties and uses. All objects are continually absorbing and emitting infrared radiation, affecting their temperatures.