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Abstract Aspects related to vector analysis and electromagnetic fields in free space are examined, taking into account scalar and vector fields, coordinate systems, differential elements of space, charges, electric and magnetic fields, and Maxwell's integral relations for free space.

Engineering Electromagnetic Fields and Waves

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Engineering electromagnetic fields and waves

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Electric field lines are parallel to \vec{E} , and the strength of \vec{E} is proportional to the density of those field lines. Electric field lines begin on positive charges and terminate on negative ones, and the m field lines there are. Field strength is proportional to lines per square meter.

Electromagnetics and Applications

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