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Carl T. A. Johnk is the author of Engineering Electromagnetic Fields and Waves, 2nd Edition, published by Wiley. Permissions. Request permission to reuse content from this site. Table of contents; Vector Analysis and Electromagnetic Fields in Free Space.

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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, vector integration, electric charges, electric and magnetic fields, and Maxwell's integral relations for free space.

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An electromagnetic field (also EMF or EM field) is a physical field produced by electrically charged objects. It affects the behavior of charged objects in the vicinity of the field. The electromagnetic field extends indefinitely throughout space and describes the electromagnetic interaction.

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In 1865 James Clerk Maxwell introduced the notion of electromagnetic (EM) waves propagating with constant speed in homogenous media, based on relations between varying electric and magnetic fields. The speed of EM waves in free space corresponds to the speed of light and is equal to  $3 \times 10^8$  m/s.

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