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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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Engineering Electromagnetic Fields

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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Chapter 1 Bibliography

An electromagnetic field (also EMF or EM field) is a magnetic field produced by moving electrically charged objects. It affects the behavior

of non-moving charged objects at any distance of the field. The electromagnetic field extends indefinitely throughout space and describes the electromagnetic interaction.

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