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Synthesis of electromagnetic fields, which led to the discovery of electromagnetic waves, and that light is electromagnetic in nature, with a constant velocity in vacuum,  $c$ , where  $\mu_0$  and  $\epsilon_0$  are the permeability and permittivity of vacuum or air.

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## ELECTROMAGNETIC FIELDS AND WAVES

Carl T. A. Johnk is the  
author of

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2nd Edition,

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Table of Contents

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Fields in Free Space.

Vector Differential

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Maxwell's Differential  
Relations in Free  
Space.

## Waves Johnk

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Electromagnetic  
Fields and Waves.  
JOHN WILEY & SONS.  
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CONTENTS. CHAPTER

1 Vector Analysis and  
Electromagnetic

Fields in Free Space 1

1-1 Scalar and Vector  
Fields 1 1-2 Vector

Sums 3 1-3 Product of  
a Vector and a Scalar

4 1-4 Coordinate  
Systems 4 1-5

Differential Elements  
of Space 9 1-6

# Bookmark File

## PDF

Position Vector 11

1-7 Scalar and Vector  
Products of Vectors

14 1-8 Vector

Integration 20 1-9

Electric Charges,  
Currents, and Their  
Densities 23 1-10 ...

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Johnk, C. T. A.

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are examined, taking

into account scalar

and vector fields,

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equation. Time-  
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5.5.2 Electromagnetic  
pressures acting on  
permeable and  
dielectric media.....

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145 5.6 Photonic  
forces ..... 147

Electromagnetics and  
Applications

There are many  
devices and  
applications in which  
electromagnetic  
fields and waves are  
primary engineering  
considerations that  
must be dealt with  
directly. Examples

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include electrical generators and motors; antennas; printed circuit board stackup and layout; persistent storage of data (e.g., hard drives); fiber optics; and systems for radio, radar, remote sensing, and medical imaging.

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solutions in free space, dielectrics and conducting media, transmission line systems; time- and frequency-domain analysis of transmission line circuits and Smith chart applications.

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Understanding antennas and electromagnetic fields is obviously important in RF engineering, in which capturing and propagating waves are primary objectives. An understanding of RF fields is also important for dealing with the electromagn

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etic-compatibility  
(EMC) aspects of  
every electronic  
product, including  
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Understanding  
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fields and antenna  
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In physics,  
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radiation (EM  
radiation or EMR)

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refers to the waves (or their quanta, photons) of the electromagnetic field, propagating (radiating) through space, carrying electromagnetic radiant energy. It includes radio waves, microwaves, infrared, (visible) light, ultraviolet, X-rays, and gamma rays..

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Classically,  
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radiation consists of  
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