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Constants. Quantity.
Value. Electron charge
Electron mass
Permittivity of free
space Permeability of
free space Velocity of
light. $e = (1.602\ 177\ 33$

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$$\pm 0.000\,000\,46) \times 10^{19}$$

$$C\ m = (9.109\,389\,7 \pm 0.000\,005\,4) \times 10^{31}\ \text{kg}$$

$$0 = 8.854\,187\,817 \times$$

$$10^{-12}\ \text{F/m}\ \mu_0 = 4 \dots$$

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the junior and senior
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Electromagnetics. where

x is the distance along
the string in meters and

y is the vertical

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Determine: (a) the direction of wave travel, (b) the reference phase ϕ_0 , (c) the frequency, (d) the wavelength, and (e) the phase velocity.

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the theoretical

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fundamentals and basics
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situations. Each chapter
is supported by many
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topics and enhance the
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book explains advanced concepts and topics such as the application of multi-pole expansion for scalar and vector potentials, an in depth treatment for the topic of the scalar potential including the boundary-value problems in cylindrical and spherical coordinates systems, metamaterials, artificial magnetic conductors

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begins with Maxwell's equations for time-varying fields (first in integral and then in differential form), and also introduces waves at the outset. Building on these core concepts, Dr. Rao treats each category of fields as solutions to Maxwell's equations, highlighting the frequency behavior of physical structures.

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Next, he systematically introduces the topics of transmission lines, waveguides, and antennas. To keep the subject's geometry as simple as possible, while ensuring that students master the physical concepts and mathematical tools they will need, Rao makes extensive use of the Cartesian coordinate

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system. Topics covered in this book include: uniform plane wave propagation; material media and their interaction with uniform plane wave fields; essentials of transmission-line analysis (both frequency- and time-domain); metallic waveguides; and Hertzian dipole field

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solutions. Material on cylindrical and spherical coordinate systems is presented in appendices, where it can be studied whenever relevant or convenient. Worked examples are presented throughout to illuminate (and in some cases extend) key concepts; each chapter also contains a summary and review questions. (Note:

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In 1865 James Clerk Maxwell (1831 - 1879) published this work, "A Dynamical Theory of the Electromagnetic Field" demonstrating that electric and magnetic fields travel through space as waves moving at the speed of light. He proposed that light is an undulation in the same medium that is the cause of electric and

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magnetic phenomena.

The unification of light and electrical

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predict the existence of

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also regarded as the

founding scientist of the

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His discoveries helped

usher in the era of

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fields as special relativity and quantum mechanics. Many physicists regard Maxwell as the 19th-century scientist having the greatest influence on 20th-century physics. His contributions to physics are considered by many to be of the same magnitude as the ones of Isaac Newton and Albert Einstein. In

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