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For an arbitrary vector field \mathbf{C} we have where $\nabla \cdot \mathbf{C} = \nabla \cdot (\mathbf{C} / r) + (3a) (3b) 4$ and $\nabla \times \mathbf{C} = 0$. FIELD THEORY OF GUIDED WAVES (3c) When the field vectors are decomposed into their basic parts and the results of (3b) and (3c) are used, the field equations (1) become $\nabla \times \mathbf{E} = -j\omega \mathbf{B}$, $\nabla \times \mathbf{H} = j\omega (\mathbf{D} + \mathbf{D}_p) + \mathbf{J}$, $\nabla \cdot \mathbf{D} = \rho$, $\nabla \cdot \mathbf{B} = 0$, $\nabla \cdot \mathbf{J} = -j\omega \rho$.

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Propagation modes and cutoff frequencies. A propagation mode in a waveguide is one solution of the wave equations, or, in other words, the form of the wave. Due to the constraints of the boundary conditions, there are only limited frequencies and forms for the wave function which can propagate in the waveguide.

Waveguide - Wikipedia

Field Theory of Guided Waves. The book includes a complete discussion of scalar and dyadic Green's function. As a valuable source of basic information on applied mathematical topics and a hands-on guide to solution methods and techniques, this book belongs on the desk of all engineers working on microwave and antenna systems.

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Briefly, Professor Robert E. Collin's revised text (Field Theory of Guided Waves) is a goldmine for those who want to do serious work in applied electromagnetics. This book is not addressed with aspiring physicists in mind, but rather directed at electrical engineers who are engaged working in radio wave propagation, scattering and antennas.

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