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For an arbitrary vector field  $C$  we have where  $\nabla \cdot C = \nabla \cdot C_x + \nabla \cdot C_y + \nabla \cdot C_z$  (3a) (3b) 4 and  $\nabla \times C = \nabla \times C_x + \nabla \times C_y + \nabla \times C_z$  (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  $\nabla \times E = -j\omega B$ ,  $\nabla \times H = j\omega(D + D_p) + J$ ,  $\nabla \cdot D = \rho$ ,  $\nabla \cdot B = 0$ ,  $\nabla \cdot J = -j\omega p$ .

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A waveguide is a structure that guides waves, such as electromagnetic waves or sound, with minimal loss of energy by restricting the transmission of energy to one direction. Without the physical constraint of a waveguide, wave amplitudes decrease according to the inverse square law as they expand into three dimensional space. There are different types of waveguides for different types of waves. The original and most common meaning is a hollow conductive metal pipe used to carry high frequency ra

## **Waveguide - Wikipedia**

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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