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For an arbitrary vector field C we have where 2See Section A.le. $C = C_1 + C_2$,
(3a) (3b) 4 and $\nabla \cdot C = 0$. 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)

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become $\nabla \times E = -j\omega B$, $\nabla \times H = j\omega(D \nabla \cdot D + J) + J$, $\nabla \cdot D = \rho$, $\nabla \cdot B = 0$, $\nabla \cdot J = -j\omega p$.

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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

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constraint of a waveguide, wave amplitudes decrease according to the inverse square law as they expand into three dimensional space.

Waveguide - Wikipedia

Field theory of guided waves 1995,
Oxford University Press in association
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