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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) become  
 $\nabla \times E = -j\omega B$ ,  $\nabla \times H = j\omega(D_1 + D_2) + J_1 + J_2$ ,  
 $\nabla \cdot D_1 = \rho$   $\nabla \cdot B = 0$   
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space, as an infinite amount of energy would be required from the sources. However, TEM waves can also propagate in the region of finite volume between electrodes.

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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

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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 with the Institute of Electrical and Electronic Engineers in English - 2nd ed.

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book is not addressed

with aspiring physicists

in mind, but rather

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Microwave field theory  
Within microwave field  
theory, the interface of  
a dielectric and  
conductor supports  
"surface wave  
transmission". Surface  
waves have been  
studied as part of  
transmission lines and  
some may be

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considered as single-wire transmission lines. Characteristics and utilizations of the electrical surface wave phenomenon include:

## **Surface wave - Wikipedia**

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