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Simply staten this is one of the finest books ever written in applied electromagnetics. There is a deligthful analytical treatment of everything related to wave-propagation in waveguides. But Mr Collin is not a dry-hearted teacher ,he is

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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.

Field Theory of Guided Waves by R. E. Colling

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Field theory of guided waves (Book, 1990)

[WorldCat.org]

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 considered as single-wire transmission lines .

Field Theory Of Guided Waves - andremcnicoll.com

Packed with examples and applications "Field theory of guided waves" provides solutions to a large number of practical structures of current interest. The book includes an exceptionally complete discussion of scalar and Dyadic Green functions.

Field Theory of Guided Waves - Wiley-IEEE Press Books

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.

Field Theory of Guided Waves: Robert E. Collin ...

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Field Theory of Guided Waves (IEEE Press Series on Electromagnetic Wave Theory)

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functions.

Field theory of guided waves. (Book, 1960)
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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.
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Surface wave - Wikipedia

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Waveguide - Wikipedia

Book Abstract: "Co-published with Oxford University Press Long considered the most comprehensive account of electromagnetic

theory and analytical methods for solving waveguide and cavity problems, this new Second Edition has been completely revised and thoroughly updated -- approximately 40% new material!Packed with examples and applications FIELD THEORY OF GUIDED WAVES provides solutions to a large number of practical structures of current interest. The book includes an exceptionally ...

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