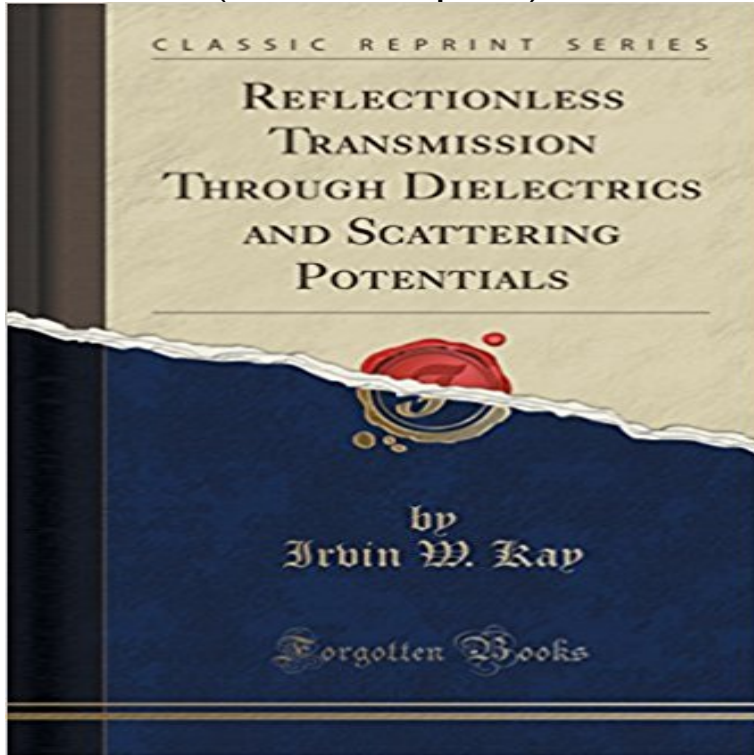


Reflectionless Transmission Through Dielectrics and Scattering Potentials (Classic Reprint)



Excerpt from Reflectionless Transmission Through Dielectrics and Scattering Potentials A difficult problem of practical as well as theoretical interest in the construction of a solid dielectric medium which is perfectly transparent to electromagnetic radiation. Generally the index of refraction of the medium is required to vary between set minimum and maximum values, and the medium itself must be confined to a slab of finite thickness bounded on either side by a vacuum. The problem as stated, however, is an ideal one which seems impossible to solve. The most one can hope to do is to guarantee that a large percentage of the incident energy in a given frequency band over a given range of incidence angles will be transmitted with a correspondingly small percentage of the energy reflected by the medium. As a start toward investigating this restricted, but still difficult, version of the problem it seems reasonable to look for dielectric media which are transparent in an even more limited sense. Thus, we shall consider an infinite class of dielectric media having the following properties: (1) Each medium in the class will have a plane stratified variable index of refraction extending from $-\infty$ to $+\infty$; (2) At all angles of incidence but at a fixed frequency and polarization a plane wave incident from $-\infty$ will be transmitted to $+\infty$ without reflection; (3) The index of refraction of each medium will vary continuously throughout and will approach unity at both $-\infty$ and $+\infty$. There is some hope that the results to be given here can be applied to the more complicated practical problem after further investigation. That is, in the infinite class of dielectrics we shall obtain there may be one or more which satisfies all requirements of the original problem well enough to be of use. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at

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