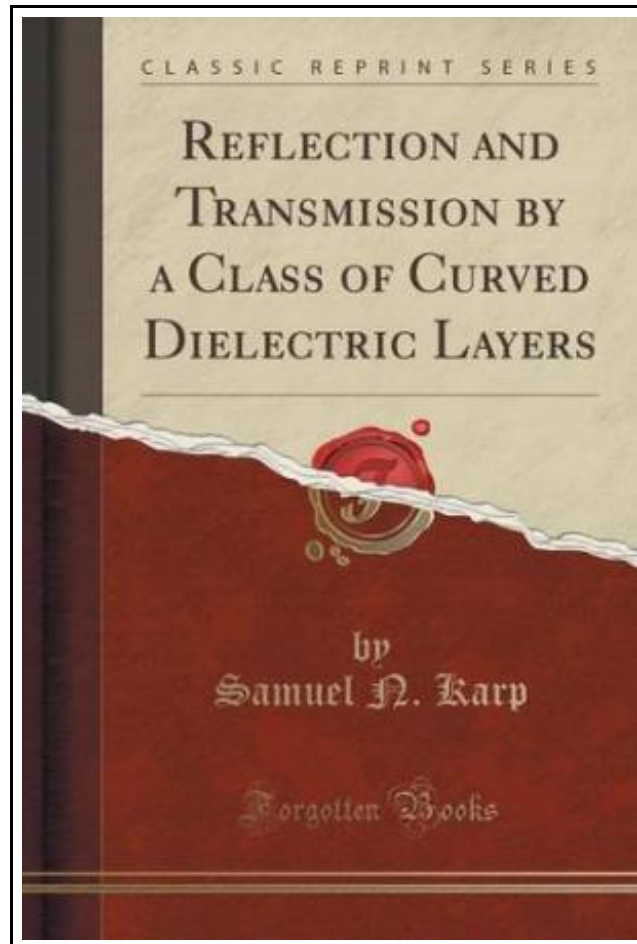


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REFLECTION AND TRANSMISSION BY A CLASS OF CURVED DIELECTRIC LAYERS (CLASSIC REPRINT)



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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Reflection and Transmission by a Class of Curved Dielectric Layers The present paper is concerned with the analysis of the reflection and transmission properties of a special class of curved slabs of material. The dielectric constant is space-dependent in a special way. The purpose of the analysis is to examine the space dependence of the reflected and transmitted waves. We observe that the space dependence of the reflected and transmitted waves due to a plane slab, whose index varies in the direction perpendicular to a face, is very simple and well known while the dependence on frequency, slab thickness and slab material is elementary only for special cases, such as the case of a constant index of refraction. The principal result of our analysis, which is stated in the abstract, expresses an analogy between the curved slab we treat and plane slab. For the class of parabolic slabs which we consider, the space dependence of the rigorous solution is particularly simple, while the dependence on the frequency, material and thickness is not easily analyzable except in special cases: no such analysis is given here. A brief description of the slabs we consider and of the results we obtain is given in the abstract which precedes this work. In Section 2 we give a fuller description of the class of slabs to be treated. This class of slabs should be thought of as intermediate in simplicity between the class of plane slabs and that of circular shells or layers of matter. The latter class of geometries presents analytical difficulties of the type already familiar in the case of diffraction or reflection from perfectly conducting circular...



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