



Equivalence Relations in Diffraction Theory (Classic Reprint)

By S N Karp

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Equivalence Relations in Diffraction Theory It is of some interest in mathematical physics to find methods whereby the solution of one boundary-value problem may be deduced from the solution of a different one, i.e., to establish equivalence relationships between different problems. One example of the utility of equivalence relations between different problems is afforded by Kelvin's well-known method of images where the original boundary-value problem is transformed into one for a larger domain for which a solution is generally available by inspection. Babinet's principle in diffraction theory is a further example of the utility of equivalence relationships between different boundary-value problems. It is of interest to note that the process used in the present paper may be applied to deduce Babinet's principle. The object of the present paper is to obtain some more general equivalence relationships between different problems occurring in acoustic and electromagnetic diffraction theory. The first problem considered is that of the diffraction of a plane wave normally incident on a two-dimensional infinite grating composed of strip elements equal in...



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