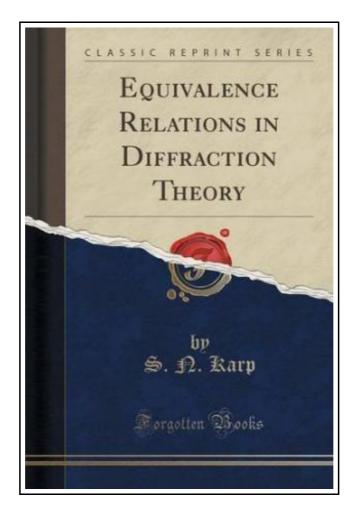
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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from Equivalence Relations in Diffraction Theory It is of some interest in mathematical physics 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 width to the grating spacing. This problem was recently solved by Baldwin and Heins, who, from symmetry considerations, reduced it to the diffraction problem for an iris in a parallel-plate waveguide. They then obtained a solution to this latter problem by means of the Wiener-Hopf technique, which has not previously proved useful for the wave diffraction problems involving finite obstacles. It is shown in the present paper, however, that this solution may be deduced immediately from the solution of the diffraction problem for a bifurcated waveguide (or, equivalently, from the diffraction problem for an infinite set of semiinfinite parallel plates,...

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