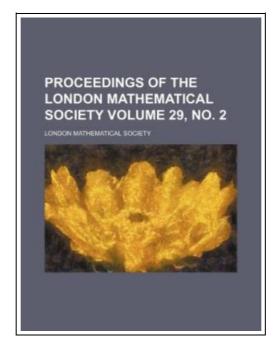
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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1898 Excerpt: . 5, serve to explain the polarizing efficacy of a grating, as employed originally by Hertz. As a numerical example, let us suppose that the wave-length is ten times the interval a + b. Then, even if one-tenth only of the area of the grating be occupied by the metal strips, the coefficients of reflection and transmission are, for electrical vibrations parallel to the lengths, 1=879, I =121. The same numbers in reverse order give the coefficients of reflection and transmission for electrical vibrations transverse to the length, when the apertures occupy only one-tenth of the area; viz., 7=121, J =-879. The coefficient of reflection in the one case, and of transmission in the other, increases rapidly with the wave-length. In the immediate neighbourhood of the grating the lines y = const, coincide with the curves f = const, of Fig. 1. These give the directions of the electric oscillation; but it must be remembered that the portions of the vertical line of symmetry which represented the metal strips in the electrostatic problem of 1 now correspond to apertures, and vice versa. The mathematical conditions to which the magnetic force y is subject in the problem of this section are exactly those which apply to the velocity-potential in the case of sound-waves incident directly on a grating of the kind considered.f It appears that a series of narrow slits, with relatively broad opaque intervals, may transmit a very large proportion of the original sound, provided the...

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