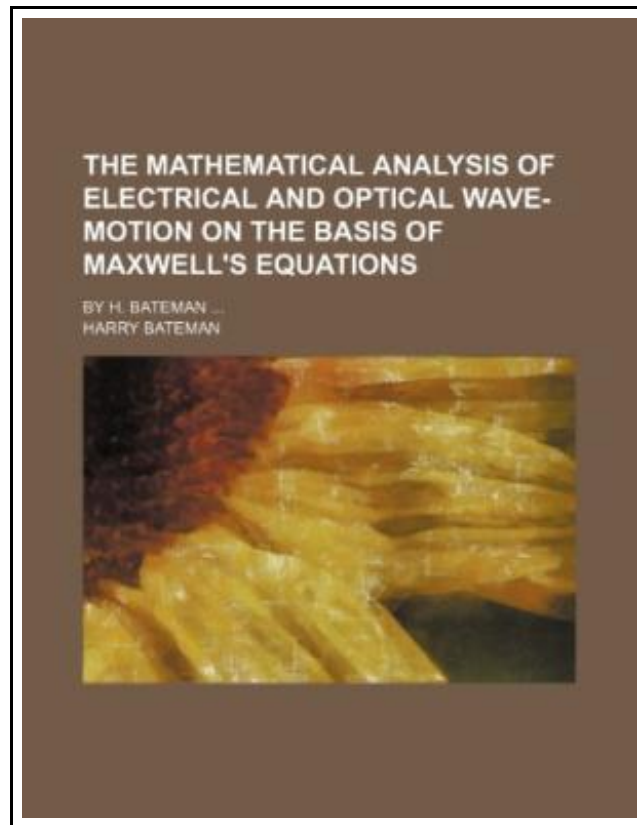


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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1915 Excerpt: .the integral expressions for l_l , $n_x i$ n_2 in these equations and equating to zero the coefficients of functions of type $J_n(Xp)$ in the resulting integral equation, we obtain the system of equations IV THE SPREADING OF WAVES OVER AN INFINITE PLANE 75 where the last equation has been simplified with the aid of the relations $\nabla \cdot \mathbf{g} = 0$ (n_0) which are a consequence of the previous equations. Solving these equations we eventually find that if $i\omega Q_0$, Q_t , n , $-(j^2 \cdot, o, n,)$, $+ iB \cos \theta S J_x(p)$ $e^{T M l a} \dots -5-r. J_o(l+m)(hH + km)$ The directed effect depends on the presence of the terms involving $\cos \theta S$ in the expressions for Q_z and R_z . Now when $r = \infty$ for the second medium, $h = cc$, and these terms vanish altogether; hence the possibility of directing the energy of the radiation sent out from the bent antenna is due to the imperfect conductivity of the earth. Von Hoerschlemann has given a numerical discussion of the above formulae but the investigation is too long to be inserted here. 28. Propagation of electromagnetic waves along a straight wire of circular cross-section. Let us consider the symmetrical case when the electric force at any point is in a plane through the axis of the wire H. Hertz, Electric Waves; J. J. Thomson, Proc. London Math. Soc. Vol. 17 (1886), p. 310; Recent Researches, 259; A. Sommerfeld, Ann. d. Physik, Bd. 67 (1899), p. 233; Gray and...

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