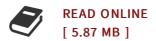# The Mathematical Analysis of Electrical and Optical Wave-Motion on the Basis of Maxwell s Equations

By Harry Bateman

Literary Licensing, LLC, United States, 2013. Paperback. Book Condition: New. 229 x 152 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 forll, nxi n2in these equations and equating to zero the coefficients of functions of type Jn(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 / = g = 0 (n0) which are a consequence of the previous equations. Solving these equations we eventually find that if iWQ o, Qt), n, -(j?., o, n,), + IB cos oS Jx (p) eTMla---5-r. Jo (I + m) (hH + km) The directed effect depends on the presence of the terms involving cos oS in the expressions for Qz and Rz. Now when r = oo for the second medium, h = cc, and these terms vanish altogether; hence the possibility of directing the energy of the radiation...

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