



The Mathematical Analysis of Electrical and Optical Wave-Motion on the Basis of Maxwell's Equations (Hardback)

By Harry Bateman

Literary Licensing, LLC, United States, 2013. Hardback. 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 for \mathbf{E} , \mathbf{H} 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 $\frac{1}{\mu} = \frac{1}{\mu_0} (1 - \frac{1}{n^2})$ which are a consequence of the previous equations. Solving these equations we eventually find that if $\mathbf{E} = \mathbf{E}_0 e^{i(\mathbf{Q} \cdot \mathbf{r} - \omega t)}$, $\mathbf{H} = \mathbf{H}_0 e^{i(\mathbf{Q} \cdot \mathbf{r} - \omega t)}$, $\mathbf{J} = \mathbf{J}_0 e^{i(\mathbf{Q} \cdot \mathbf{r} - \omega t)}$, $\mathbf{E} = \mathbf{E}_0 e^{i(\mathbf{Q} \cdot \mathbf{r} - \omega t)}$, $\mathbf{H} = \mathbf{H}_0 e^{i(\mathbf{Q} \cdot \mathbf{r} - \omega t)}$, $\mathbf{J} = \mathbf{J}_0 e^{i(\mathbf{Q} \cdot \mathbf{r} - \omega t)}$, $\mathbf{E} = \mathbf{E}_0 e^{i(\mathbf{Q} \cdot \mathbf{r} - \omega t)}$, $\mathbf{H} = \mathbf{H}_0 e^{i(\mathbf{Q} \cdot \mathbf{r} - \omega t)}$, $\mathbf{J} = \mathbf{J}_0 e^{i(\mathbf{Q} \cdot \mathbf{r} - \omega t)}$. The directed effect depends on the presence of the terms involving $\cos \theta$ 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...



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