



The Propagation of Electromagnetic Waves Through, Along and Over a Three-Dimensional Conducting Half Space

By D. S. Gilliam

Peter Gmbh Lang Dez 1986, 1986. Taschenbuch. Condition: Neu. Neuware - A representation in terms of explicitly given generalized eigenfunctions is obtained for the semigroup $S(t) = \exp(-ixt)$ solving the Cauchy problem for the time-dependent Maxwell equations in the case of two distinct media filling the upper and lower half spaces of \mathbb{R}^3 , whereby the upper medium is loss-free, while the lower has finite conductivity. The solution $u = S(t)f, f \in D(1)$, can be written in the form $u = u_0 + u_0 + u_{s0} + u_{s+} + u_{s-} + u_p + u_{up}$. Here u_0 and u_{s0} are, respectively, static and quasistatic parts of the solution: u_{s+} and u_{s-} consists of a superposition of AH modes -- modes whose frequencies have no real part and thus do not propagate; u_{s+} and u_{s-} consist of superpositions of surface-wave modes, propagating in opposite directions according to $+$ or $-$; u_{up} and u_{up} are superpositions of plane-wave modes having the frequencies of the upper and lower media respectively. The structure of the AH and surface-wave components is determined: they are essentially scalar waves, and it is shown how such waves can be constructed explicitly from solutions of a simple problem for the scalar wave equation. 205 pp. Englisch.



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