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Effective Medium Theory for Ferrite-Loaded Materials (Classic Reprint) (Paperback)

By Richard G Geyer

Forgotten Books, 2017. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Effective Medium Theory for Ferrite-Loaded Materials Dielectric and magnetic composite materials have complex permittivity and permeability properties that are determined by their constituents. Frequently, spectral characteristics for the dielectric and magnetic properties that differ from those of individual constituent materials are needed. Hence it is necessary to produce a material whose electromagnetic properties follow some specified behavior. This may be accomplished by either loading a material or by making multiphase mixtures. The loading constituent may take the form of small spheres, ellipsoids, platelets, rods, or other shapes. The bulk properties of the composite will depend on the alignment of the loading particles and therefore may be dielectrically or magnetically anisotropic. The loading particles may also interact with each other. Thus, the size, shape, and alignment of the loading material particles enter into mathematical formalisms describing the electromagnetic behavior. Effective medium theory has been studied for many years [1 In this paper we evaluate the applicability of coupled electric and magnetic - field integral equation solutions for the effective propagation constant and impedance of a two-phase mixture that...



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