
Reflection and transmission by a bi-anisotropic omega structures under normal incidence of plane waves

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In this paper plane wave reflection and transmission phenomena in slabs of artificial bi-anisotropic media are theoretically considered. The

artificial structure is a so-called *omega* composite which is formed by embedding small Ω -shaped particles in an isotropic host-medium. Normal incidence is assumed. The boundary-value problem for artificial omega structure was solved taking into account multiple reflections of electromagnetic waves from the sample's boundaries.

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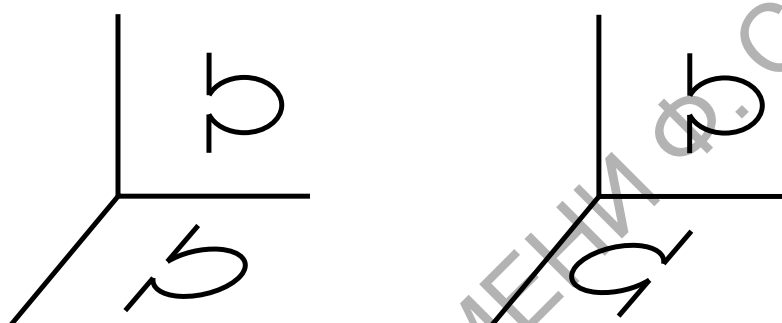


Figure 1. Geometry of the omega structure

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