

“Multiplicative measure of planar chirality for 2D meta-materials”, pp.89-93

Serge P. Boruhovich, Sergey L. Prosvirnin, Alexander S. Schwanecke, Nikolay I. Zheludev

Abstract –We describe a new efficient continuous geometrical measure of two-dimensional chirality for photonic and microwave planar meta-materials. Its properties include integrability, scale-independence, boundedness to a well defined interval and flexibility as well as applicability towards an extensive number of chiral geometries. The chirality measures of various arrangements of standard chiral and achiral template structures are evaluated and a method for the characterization of (infinite) periodic structures is suggested.