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INVESTIGATION OF ELECTROMAGNETIC APPLICATIONS OF CHIRAL STRUCTURES

BY

*** R. DAMIAN, ** R. CIOBANU and ** CRISTINA SCHREINER**

Abstract. A hexachiral honeycomb structure with good mechanical properties is investigated through computer simulation and measurements. This new material shows some interesting EMC properties (e.g. -20dB transmittance @ $1 \div 4$ GHz). The possible applications for this type of material are investigated together with the conditions imposed on the base material and/or geometrical and structural properties.

Keywords: Chiral honeycomb, design maps, electromagnetic properties, microwave shielding.