

Synthesis of Low-Profile Antennas using Fractal Analysis

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Abstract

The results of the synthesis of low-profile antennas based on taking into account the very similarity of their elements are presented. The main disadvantages of low-profile antennas and promising ways to overcome them are considered. The results of calculating their characteristics in the MMANA-GAL and CST Microwave Studio modeling environment are presented. Possibilities of fractal types of low-profile antennas are investigated. The prospects for their application have been determined.

Index terms— low-profile antennas, fractal antennas, in-phase antenna systems.

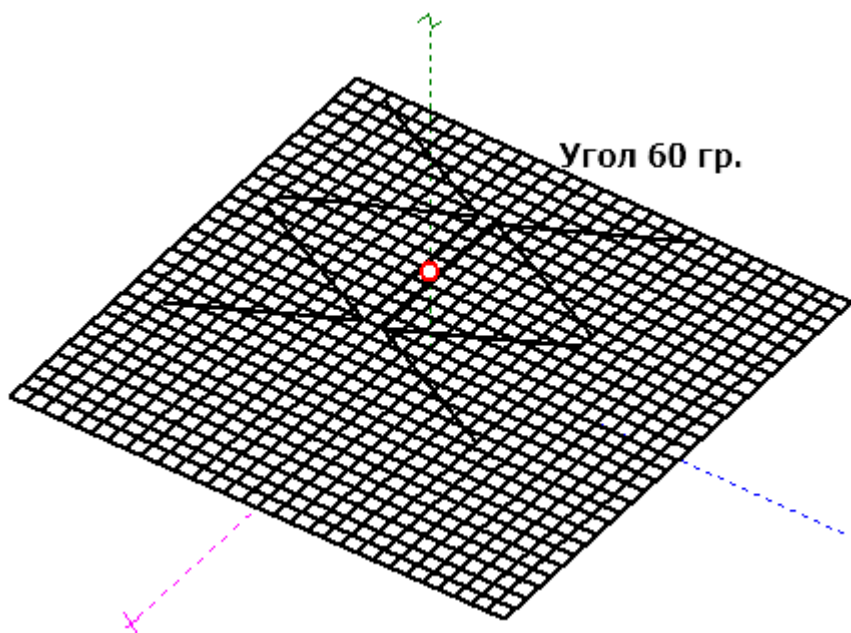


Figure 1:)

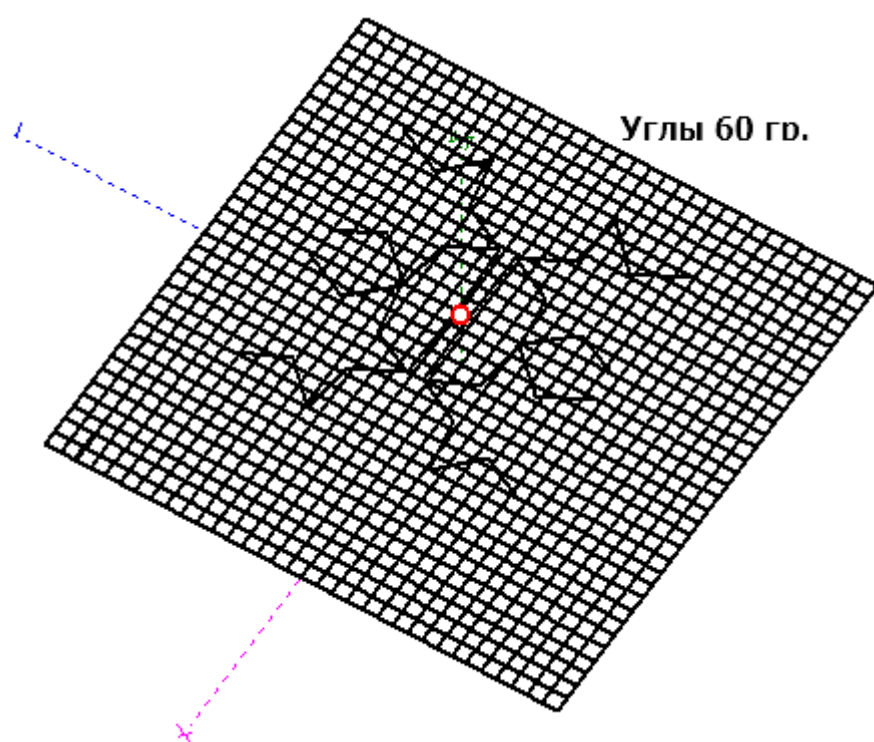


Figure 2:

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