Abstract Details

Title: Design and Analysis of Fractal Tree and Fractal Koch curve Antennas

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Abstract: In this paper we design and analysis the result of the 4th iteration of Fractal Koch curve and Fractal Tree antennas. The entire dimensions of the fractal Koch and tree antennas are 16mm * 18mm. In our paper there is comparison between fractal tree and Koch curve antennas. Antenna is simulated using high frequency structure simulator (HFSS) V.13 which is based on finite element modeling (FEM).The antenna characteristics such as return loss, radiation pattern and VSWR of the antenna are analyzed and presented.. The simulated result of Koch curve fractal antenna is much better than the fractal tree antenna.

Keywords: Koch, fractal, space filling, self-similarity, octagonal.