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Modelling and computation of fractal antennas: circle monopole, the life-flower antenna

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This paper explorers the modelling and computation of fractal antennas. In the beginning the fractal geometry of antennas explained Also two new kinds of fractal antennas described: circle monopole and Life-Flower geometry antenna. Both antennas are series of circles nested to each other in a special order. Computational modeling was performed over the range of 0.1Ghz. - 20 Ghz. Obtained results of electrodynamic characteristics of antennas present in the next section. The specific multi- and wide-band properties of the selected antennas are analized in the conclusion.

Keywords: Fractal antennas, Multiband, Wideband, Computational modeling.