MULTIBAND MINIATURISED FRACTAL ANTENNA FOR MOBILE COMMUNICATIONS

MEGHNA SARKAR[1], K SREELAKSHMI[2] & T P MITHUN[3]

[1]M.Tech Student, Department of Digital Communication, R V College of Engineering, Bangalore, Karnataka, India

[2]Associate Professor, Department of Telecommunication, R V College of Engineering, Bangalore, Karnataka, India

[3]Assistant Professor, Department of Telecommunication, R V College of Engineering, Bangalore, Karnataka, India

ABSTRACT

Fractal antennas are found to be advantageous because of their small size and multiband functionality. This paper proposes a composite miniaturized fractal antenna as a combination of Minkowski and Koch curves. The structure of the proposed antenna is the result of the modifications made with the basic fractal square and triangular curves. The design and simulation have been performed using a full-wave 3-dimensional electromagnetic simulator. The antenna can be used for most handheld devices and thus finds wide applications in the field of wireless and mobile communication.

KEYWORDS: Antenna, Fractal, Microstrip Feed, Miniaturization, Multiband