Abstract

A Planar antenna with Microstrip feed Sierpinski carpet fractal geometry for multiband applications is presented. The multiband behavior is analyzed through two fractal iterations. Self similarity property of fractal technology is applied in the antenna design to reduce the physical size, increase bandwidth and gain. The proposed antenna covers multi bands such as 1.8/5.59/5.78/6.4/6.63/7.84 GHz. The parameters of the antenna such as radiation pattern, return loss and Gain are simulated using the method of moments (IE3D) software.

References

- J. L. Vehel, E. Lutton, and C. Tricot. 1997. Fractals in Engineering. Springe-Verlag
London. 222-236.

Index Terms
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Keywords
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