Abstract

In this paper, A fractal geometry based Sierpinski square monopole antenna is investigated for UWB (3.1–10.6 GHz) application with band-notched characteristics.

UWB technology has unique features and promising applications in communications. For example, in wireless communications, the extremely wide operating bandwidth has the potential for high data-rate connections. However, the very low emission level has limited the wireless connection range to a few meters. UWB systems will coexist with other traditional communication systems in the same frequency band by using low power levels. UWB technology has received an impetus attracted academia and industrial attenuation in wider range of applications including ground plane penetrating radars, high data rate short range WLAN networks, communication systems for military purposes etc.


Index Terms

Computer Science Circuits and Systems

Keywords

Fractal antenna, UWB, MSSF