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## Microstrip Fractal Antenna Based on Resonant Frequency

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Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | A new compact fractal patch antenna is designed based on the fractal geometry. Based on the simulation results, the proposed antenna has shown an excellent size reduction possibility with good radiation performance for wireless communication applications. The change in resonating frequency with respect to the dielectric constant of substrate. The various resonating frequencies for designed antenna are 11.36 GHz, 10.3 GHz, 9.2 GHz and 8.59 GHz for RT Duroid Rogers 5880, ARLON AD 300, FR 4 and RT Duroid Rogers 6010 respectively. The S-parameter (S11) for resonating frequencies is well below -10 dB. The far-field pattern and S11 of the proposed antenna is simulated and analyzed using CST Microwave Studio 2011. A Microstrip Fractal Antenna (MFA) is a fractal shape antenna. Fractal means broken or irregular fragments in a family of complex shapes that are repeated in same manner. Microstrip fractal antenna consists of one flat conductive strip which is deposited on the dielectric substrate surface. The Microstrip Fractal Antenna uses planar transmission line in microwave/ RF in integrated circuits. | Format: Paperback | Language/Sprache: english | 104 pp.



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