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**Dual-Band Split-Ring Antenna Design for WLAN Applications** 

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Abstract: A dual-band microstrip antenna based on split-ring elements is introduced for WLAN (2.4/5.2 GHz) applications. The proposed split-ring antenna (SRA) has a compact novel design which provides about 2% impedance-bandwidth without a need for additional matching network. Analysis and design of the proposed microstrip antenna is carried out by means of full-wave simulators based on the finiteelement method.

Key Words: Split-ring, microstrip antenna, dual-band, WLAN, and finite-element method

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