

## عنوان مقاله:

Designing and fabricating of dual-band E-shaped microstrip antenna

# محل انتشار:

سومین کنفرانس ملی ایده های نو در مهندسی برق (سال: 1393)

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### نویسنده:

Saba Kazemi Alishahi - Department of Electrical and Computer Engineering, Harsin Branch, Islamic Azad University, Kermanshah, Iran

#### خلاصه مقاله:

The purpose of this paper is to present a thin, broadband E-shaped microstrip antenna which operates indual-band frequency in ranges of 5.15-5.35 GHz, 2.4-2.48 GHz. This antenna is used for WLAN applications. Coefficient ofreflection is less than -21.5 dB in both frequency bands, VSWR<2 and maximum gains in both frequency bands are0.4dB and 3 dB. In designing this antenna, a RO4003 substratewith the height of 31mil and an air gap with the height of 0.8mm have been used. To increase the bandwidth, the edges of thehorizontal arms of the antenna have been widened and the tworectangular parts have been separated from the vertical arm of the E-shaped microstrip antenna. The antenna has been simulated using HFSS10 software and then has been fabricated and tested. There is a .suitable matching between the resultsobtained from the simulation and the testing of the fabricatedantenna

# کلمات کلیدی:

dual-band, E-shaped microstrip Antenna, HFSS10 software

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