

Search

Alerts

Lists

My Scopus

Back to results | 1 of 3 Next &gt;

[Full Text](#)[View at Publisher](#)[Export](#)[Download](#)[Add to List](#) | [More...](#) ▾

### Lecture Notes in Electrical Engineering

Volume 315, 2015, Pages 111-120

1st International Conference on Communication and Computer Engineering, ICOCOE 2014; Malacca; Malaysia; 20 May 2014 through 21 May 2014; Code 111220

### U-slot rectangular patch antenna for dual band application (Conference Paper)

Habib, M.S. , Rafiqul, I.M. , Abdullah, K. , Jakpar, M.J. 

Department of Electrical and Computer Engineering, International Islamic University Malaysia, Jalan Gombak Kuala Lumpur, Malaysia

#### Abstract

[View references \(15\)](#)

Dual and multi-band rectangular microstrip antennas can be realized by cutting U-slots inside the patch. In this paper, the length and width of U-slots are optimized in order to achieve dual-band and multi-band operation. Computer Simulation Technology (CST) software was used to design, simulate and optimization of antenna. Two resonant frequencies at 1.8 and 2.4 GHz were found with reasonable gain. Additional resonant frequencies could also be achieved from 2.8 to 3.0 GHz using the similar approach. © Springer International Publishing Switzerland 2015.

#### Author keywords

**Dual band; Patch antenna; U-slot**

#### Indexed keywords

**Engineering controlled terms:** Antennas; Computer simulation; Computer software; Microwave antennas; Natural frequencies; Slot antennas

Computer simulation technology (CST); Dual Band; Dual-band applications; Multi-band operations; Multiband; Rectangular patch antenna; Rectangular-microstrip antennas

**Engineering main heading:** Microstrip antennas

ISSN: 18761100 ISBN: 978-331907673-7 Source Type: Book series Original language: English

DOI: 10.1007/978-3-319-07674-4\_12 Document Type: Conference Paper

Volume Editors: Sulaiman H.A., Othman M.A., Othman M.F.I., Rahim Y.A., Pee N.C. Sponsors: Publisher: Springer Verlag

#### Cited by 0 documents

Inform me when this document is cited in Scopus:

[Set citation alert](#)[Set citation feed](#)

#### Related documents

##### Formulation of resonance frequencies for dual-band slotted rectangular microstrip antennas

Deshmukh, A.A., Ray, K.P.

(2012) IEEE Antennas and Propagation Magazine

##### CPW-fed antenna for 2.4GHz WLAN application

Balakrishna, I., Kumar, M.S., Kumar, D.S.

(2010) 2010 IEEE International Conference on Communication Control and Computing Technologies, ICCCT 2010

##### CPW-fed semi circle patch antenna for 2.4GHz WLAN application

Balakrishna, I., Kumar, M.S., Raghavan, S.

(2011) Proceedings of 2011 International Conference on Emerging Trends in Networks and Computer Communications, ETNCC2011

[View all related documents based on references](#)

Find more related documents in Scopus based on:

[Authors](#)[Keywords](#)