Abstract

A compact Antenna is highly intended to meet the portable communication system requirement. Small size, large gain, better directivity and low power requirement are the key features of such antenna. The polarization of antenna depends on the application for which the antenna is being deployed. Such a customized rectangular micro strip patch antenna is design for linear polarization and is simulated using IE3D. Key parameters included in simulation are VSWR, Return loss, S-Parameters, Z-parameters and smith chart. The planned antenna is capable of generating resonant frequency with single feeds. Experimental result for the characteristics of small strip antenna are conferred and mentioned in this paper.

References

genetic-Algorithm optimization application for patch antenna design" IEEE Transactions on
antennas using genetic algorithms", Journal of National Science Foundation, Vol. 41, No. 2,
115-122, 2013.
5. I.W. Jayasinghe, 1. Anguera, and D.N. Uduwawala, "A simple design of multi band
microstrip patch antennas robust to fabrication tolerances for GSM, UMTS, LTE, and Bluetooth
applications by using genetic algorithm optimization," Progress In Electromagnetics Research
of a high-directivity microstrip patch antenna having a rectangular profile", Radioengineering,
Patch Antenna for WLAN Applications", 8th IEEE International Conference on Industrial and
patch antenna with broadside radiation for GSM applications", International Journal of Scientific
9. Sanjeev dwivedi, Abhishek Rawat, R.N. Yadav DESIGN OF U-SHAPE MICROSTRIP
PATCH ANTENNA FOR WiMAX APPLICATIONS AT 2.5GHz, 978-1-4673-5999-3/13/2013
IEEE.
10. M. T. Ali, S. Muhamud @ Kayat, N.R. Abd Rahman, and Norsuzila Ya’acob A Microstrip
Patch Antenna with Aperture Coupler Technique at 5.8 GHz 2011 IEEE International
Conference on System Engineering and Technology (ICSET)
Rectangular Microstrip Patch Antenna at 1 GHz 2004 RF AND MICROWAVE CONFERENCE,
OCTOBER 5 - 6, SUBANG, SELANGOR, MALAYSIA.

Index Terms
Computer Science Wireless

Keywords
Micro strip Patch antenna, linear Polarization,