

عنوان مقاله:

SWITCHING POLARISATION DIVERSITY COMMUNICATION SYSTEM APPLICATION OF RECTANGULAR DIELECTRIC RESONATOR ANTENNAS

محل انتشار:

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نویسندگان:

M. H. Neshati - *Electrical Dept. Sistan & Baluchistan University. Zahedan, ۹۸۱۶۴, Iran*

Z. Wu - *Department of Electrical Engineering & Electronics, University of Manchester Institute of Science & Technology, Manchester M۶۰ ۱QD, UK*

خلاصه مقاله:

In this paper a new application of a Rectangular Dielectric Resonator Antenna (RDRA) is presented. The experimental and simulation results of an RDRA show that the difference between the co- and cross-polarization radiation levels is at least 15dB. Using a single RDRA exciting by two probes at two modes TEx 111 and TEy 111, an antenna to receive two orthogonal polarization waves is made. A communication system including a transmitter with two orthogonal dipoles and correspondence switching polarization diversity receiver at 2.36GHz was designed and implemented to demonstrate the application of polarization diversity of an RDRA as the receiver antenna.

کلمات کلیدی:

Dielectric Resonator, Antenna and Polarization Diversity

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