Abstract

Today’s digital communications systems employ a variety of protocols to accurately transfer data. The overall quality of a communications path can be quantified by measuring its bit error rate.

Diversity, in the communications world, refers to transmitting multiple copies of the same information. The probability of receiving errored bits can be reduced by employing different diversity methods. Polarization is one of four such methods.

The objective of this project is to design, simulate, manufacture and analyze a polarization diverse microstrip line fed patch antenna capable of operating selectively with either linear or circular polarization.