Abstracts

Design and characterization of a low cost ISM-band sub carrier multiplexed broadband digital microwave radio link

N. Toledo, C.G. Santos, A. Manlapat, B. Galang, Jr., A.A. Chio, I. Wong, R. Guevarra, D.J. Sabido and IX. "Design and characterization of a low cost ISM-band sub carrier multiplexed broadband digital microwave radio link." 2001 MTT-S International Microwave Symposium Digest 01.2 (2001 Vol. II [MWSYM]): 961-964 vol.2.

This paper describes the design, construction and characterization of a subcarrier multiplexed broadband digital microwave radio link with Viterbi error control coding. The design and construction of the RF and microwave devices are described and analyzed. A key point of the research is that low cost materials could be used to implement a broadband wireless link. The effect of error control coding on the system is analyzed and bit error rate measurements were performed. Adjacent channel interference (ACI) measurements were also performed to assess the performance of the link in the presence of an adjacent carrier.

❑ Return to main document.