

Abstracts

A wireless LAN at 60 GHz - novel system design and transmission experiments

K. Kojucharow, H. Kaluzni, M. Sauer and W. Nowak. "A wireless LAN at 60 GHz - novel system design and transmission experiments." 1998 MTT-S International Microwave Symposium Digest 98.3 (1998 Vol. III [MWSYM]): 1513-1516.

A novel system design for a wireless LAN simplifying the base station and transponder complexity is proposed. It advantageously uses the WDM technology for simultaneous modulation of optical carriers with a master oscillator signal. Transmission experiments under realistic conditions prove the concept by achieving $BER < 10^{-9}$ at 50 MBit/s.

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