

Abstracts

Optically Controlled Spread-Spectrum RF Data Link

E.E. Funk, S.E. Sadow, L.J. Jasper, Jr. and C.H. Lee. "Optically Controlled Spread-Spectrum RF Data Link." 1996 MTT-S International Microwave Symposium Digest 96.3 (1996 Vol. III [MWSYM]): 1563-1566.

An optically controlled spread-spectrum RF data link architecture was demonstrated. The data link used a time-hopped optical pulse train derived from a mode-locked laser to synchronize transmission and correlated reception of wideband RF pulses. This was the first demonstration of an optically controlled time-hopped RF spread-spectrum link.

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