

Abstracts

Photonic remoting of the receiver of an ultra-high dynamic range radar

J.E. Roman, L.T. Nichols, K.J. Williams, R.D. Esman, G.C. Tavik, M. Livingston and M.G. Parent. "Photonic remoting of the receiver of an ultra-high dynamic range radar." 1998 MTT-S International Microwave Symposium Digest 98.3 (1998 Vol. III [MWSYM]): 1521-1524.

Fiber optic links have been designed and built to remote the antenna of a radar with ultra-high dynamic range, the AN/SPQ-9B ADM. The links tested successfully in receive configuration without significantly degrading the radar's 83 dB SNR. These results demonstrate that photonic technology can meet the phase noise requirements for remoting modern radars.

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