

Abstracts

The ARSR-4 High Fidelity Solid State Transmitter

R.R. Barron and D.M. Schultheis. "The ARSR-4 High Fidelity Solid State Transmitter." 1994 MTT-S International Microwave Symposium Digest 94.3 (1994 Vol. III [MWSYM]): 1733-1736.

This paper describes a 90 kW L--band solid state transmitter for the next generation air route surveillance radar (ARSR-4) which supports a system clutter cancellation ratio greater than 65 dB. The transmitter contains phase control loops for beam steering and reduction of pulse phase distortion, as well as pulse amplitude shaping for spectral bandwidth compliance.

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