

Abstracts

Anomalies in Duplexing Very Short Pulses (Letters)

D.J. Fitzgerald and J.M. Proud. "Anomalies in Duplexing Very Short Pulses (Letters)." 1974 Transactions on Microwave Theory and Techniques 22.4 (Apr. 1974 [T-MTT]): 471-473.

The advent of nanosecond pulse sources with multikilowatt power at X band has created a need for a suitable duplexing scheme for incorporation into a monostatic radar configuration. The advantages and disadvantages of various ferrite and diode duplexer structures have been evaluated. It is the purpose of this letter to report these results and to indicate several phenomena that were observed to be unique to short-pulse operation.

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