

Abstracts

A Generalized Optimal Signal Processing Algorithm for Frequency-Stepped CW Data

S.M. Wu, G.A. Ybarra and W.E. Alexander. "A Generalized Optimal Signal Processing Algorithm for Frequency-Stepped CW Data." 1995 MTT-S International Microwave Symposium Digest 95.3 (1995 Vol. III [MWSYM]): 1019-1022.

We derive a complex non-linear optimal signal processing algorithm for estimating target reflection ranges from a set of frequency-stepped CW measurements. We demonstrate the performance of this algorithm using synthetic FSCW data through comparisons with the IFFT and the real version of the optimal signal processing algorithm.

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