

Abstracts

Calibrating a Six-Port Reflectometer Using Three Known Loads

M.E. Bialkowski and G.S. Woods. "Calibrating a Six-Port Reflectometer Using Three Known Loads." 1985 MTT-S International Microwave Symposium Digest 85.1 (1985 [MWSYM]): 589-592.

A technique for calibrating an arbitrary six-port network using nine unknown loads and three known loads is described. The technique is similar to the self-calibration technique first developed by Engen. However, it uses full six-port to four-port reduction so that it is quite insensitive to errors. The theory is illustrated with typical measurement results showing an accuracy of better than 1.0% achievable without optimization of the six-port to four-port reduction constants.

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