

Abstracts

Explicit Microwave Rotary Phase Shifter Calibration Algorithm (Letters)

P.L. Somlo. "Explicit Microwave Rotary Phase Shifter Calibration Algorithm (Letters)." 1990 *Transactions on Microwave Theory and Techniques* 38.1 (Jan. 1990 [T-MTT]): 96-96.

A microwave rotary phase shifter calibration method described previously requires the device under test (DUT) to be connected in tandem with a 2-state phase stepper (flap) of initially unknown phase shift F to form an arm of a phase bridge circuit. The measurement is carried out by setting the DUT sequentially to a series of cardinal points, α_{0i} , $i = 1, \dots, M$, equally spaced around the dial. At each, the phase bridge is balanced, and after introducing the flap, the new setting α_{fi} of the DUT needed to return the phase bridge to balance is found.

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