

Abstracts

Precise Control of Ferrite Phase Shifters

D.D. King, C.M. Barrack and C.M. Johnson. "Precise Control of Ferrite Phase Shifters." 1959 Transactions on Microwave Theory and Techniques 7.2 (Apr. 1959 [T-MTT]): 229-233.

Hysteresis and thermal drifts can prevent accurate calibration of ferrite phase shifters. To provide a precise setting of phase in response to a control signal a servo system has been developed. This system utilizes a control frequency to determine uniquely the phase shift in a ferrite element. The desired phase shift is then a function only of control frequency and line length. Performance data are given for various operating conditions of the control system.

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