

Abstracts

A Corrugated Waveguide Phase Shifter and its Use in HPM Dual-Reflector Antenna Arrays

L.F. Libelo and C.M. Knop. "A Corrugated Waveguide Phase Shifter and its Use in HPM Dual-Reflector Antenna Arrays." 1995 Transactions on Microwave Theory and Techniques 43.1 (Jan. 1995 [T-MTT]): 31-35.

An analysis, with computations and experimental verification, is given which shows that an axially compressible or extendable thin-wall corrugated metallic cylinder can be used as a phase shifter to achieve $\pm 180^\circ$ phase control. Employment of such a device in an array of HPM dual-reflector antennas to achieve maximum in-phase array radiation is then briefly outlined.

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