Abstracts

Characteristics of a MM-wave tapered slot antenna with corrugated edges

S. Sugawara, Y. Maita, K. Adachi, K. Mori and K. Mizuno. "Characteristics of a MM-wave tapered slot antenna with corrugated edges." 1998 MTT-S International Microwave Symposium Digest 98.2 (1998 Vol. II [MWSYM]): 533-536.

We discuss how the radiation pattern of a reduced ground plane tapered slot antenna (TSA) is improved by varying the dimensions of a corrugated structure present at the edge of the TSA substrate. Experimental results are given that indicate that E-plane radiation patterns can be adjusted by varying the corrugation structure geometry. We also present calculated analyses of the corrugation structure using the finite-difference time-domain (FDTD) method.

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