Abstracts

A near-field alignment technique at millimeter and sub-millimeter wavelengths

Ming-Tang Chen, C.E. Tong, D.C. Papa and R. Blundell. "A near-field alignment technique at millimeter and sub-millimeter wavelengths." 2000 MTT-S International Microwave Symposium Digest 00.3 (2000 Vol. III [MWSYM]): 1631-1633.

We have employed a portable near-field scanner operating at millimeter and sub-millimeter wavelengths to map the 2D amplitude and phase patterns of a radio beam. Combined with a numerical transform, we have developed a novel alignment procedure to diagnose the alignment error in a complex receiving system. The optics of a multiband, superconducting receiver have been aligned using this technique.

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