

Abstracts

Technology Considerations for the Use of Multiple Beam Antenna Systems in Communication Satellites (1979 [MWSYM])

E.W. Matthews, C.L. Cuccia and M.D. Rubin. "Technology Considerations for the Use of Multiple Beam Antenna Systems in Communication Satellites (1979 [MWSYM])." 1979 MTT-S International Microwave Symposium Digest 79.1 (1979 [MWSYM]): 125-127.

Design constraints for a six-beam reconfigurable satellite antenna system are reviewed, and show that losses in the variable beam-forming network (BFN) limit performance achievable with a conventional common power amplifier/receiver system. An alternate design for an active BFN is presented, and relative performance predicted at 4/6, 11/14 and 20/30 GHz.

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