

Abstracts

Q-Band Computerized Slotted Line System

A. Tongyi, M. Jiaheng, M. Qingxiang, Y. Hua and F. Jinlin. "Q-Band Computerized Slotted Line System." 1988 MTT-S International Microwave Symposium Digest 88.2 (1988 Vol. II [MWSYM]): 755-756.

A new auto-test system for measuring network parameters at Q-band is developed. The system is based on the conventional slotted line system and controled by the APPLE II microcomputer. It has all the functions which the manual one has and performs much better than the latter in accuracy, reliability, speed and automatic. The principles, constructions and features of the system are introduced. The typical results for complex reflection coefficient voltage standing wave ratio, impedance, attenuation and S-parameters are given. The system may be valuable in developing test system at short millimeter wave band and seems to make a new life of the slotted line system.

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