Abstracts

Full Wave Analysis of Propagation Characteristics of a through Hole Using the Finite-Difference Time-Domain Method (1991 Vol. III [MWSYM])

S. Maeda, T. Kashiwa and I. Fukai. "Full Wave Analysis of Propagation Characteristics of a through Hole Using the Finite-Difference Time-Domain Method (1991 Vol. III [MWSYM])." 1991 MTT-S International Microwave Symposium Digest 91.3 (1991 Vol. III [MWSYM]): 1003-1006.

A full wave analysis of the propagation characteristics of a through hole was carried out using the finite-difference time-domain (FD-TD) method. The results were compared with measured values. Agreement between computed results and measured ones was excellent from DC to high frequencies. As a result, it is shown that at high frequencies, radiation is at a significant level. The frequency characteristics of radiation depend on the structure of the through hole, especially its rod diameter and microstrip connecting angle.

❑ Return to main document.