

# **Session D:**

## **Planar and Quasi Planar Guides**

**Chairman: Michael Dydyk**

Motorola, Inc.  
Scottsdale, AZ

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This session consists of five papers dealing with the subject of planar guide characteristics. Specifically: the analysis of aperture coupled shielded microstrip lines based on Pocklington's integrals and the equivalence principle, MMIC slot-link is introduced and compared with conventional slot; a full-wave analysis of a unilateral finline with finite conductivity, metalization thickness and holding grooves is presented; a very thin coplanar waveguide and a slow-wave structure using a very thin coplanar strip have been characterized; a generalized solution to the propagation constant and characteristic impedance of a planar transmission line realized on multi-layered, isotropic media with finite thickness metals will be presented.

**8:00 a.m.–9:30 a.m., Tuesday, May 8, 1990**  
**W101**