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MEASUREMENTS II

Chairman: R. E. Ham—Clemson University

Session Abstract: Progress in ANA's and their standards has led to vastly improved characterization accuracy of complex propagation media. The utility of the ANA is improved by both topographical simplification and accuracy enhancement. One paper in this session introduces a simplification to the six-port analyzer. Simplification can facilitate extension to higher frequencies. As the network analyzer is limited in accuracy by the definition of the calibration standards, a performance enhancement is often achieved by the improvement in standards. The second paper introduces distributed standards for coplanar waveguide. The improvements in accuracy possible with error corrected measurements allows characterization of complex transmission media. The third paper presents characterization and modeling results of coplanar waveguide. External measurements on slot line and CPW by ANA's can be complemented by electro-optic sampling techniques as in the last paper on dispersive characteristics of even and odd modes.

4:00 pm–5:30 pm, May 25, 1988
Jacob Javits Convention Center, Hall 1E
Room 4