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## **MICROWAVE INTEGRATED CIRCUITS—II**

**Chairman: John A. Pierro—Eaton Corporation/AIL**

**Session Abstract:** The first and second papers discuss the application of distributed techniques to broadband amplification and impedance transformation. The paper devoted to distributed amplification applies, in an innovative manner, feedforward techniques and tapering to enhance the performance of a 1–12 GHz amplifier. The second paper illustrates the development of a 2–20 GHz 2:1 active transformer.

The third paper discusses the development of a GaAs MMIC 13.6–14.7 GHz microwave synthesizer that has been packaged in an 11 × 23 mm surface-mount package. An impressive level of integration is achieved.

The fourth paper describes the development of an L-band vector modulator that uses a novel all-pass network to generate quadriphase signals which are then adjusted in amplitude to produce 0° to 360° output. The phase shifter is extremely compact.

**2:00 p.m.–3:30 p.m., Thursday, June 15, 1989**  
**California Room**