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COMPUTER-AIDED MODELING AND DESIGN OF ACTIVE CIRCUITS

Chairman: Rowan Gilmore—Compact Software

Session Abstract: This session focuses on the modelling and application of active devices to circuit design. Both linear, quasi-linear, and nonlinear design methods are presented. The nonlinear designs use both physical and equivalent-circuit models for the active devices, which include both MESFETs and bipolar transistors. A large-signal technique for the extraction of the nonlinear model parameters is presented, and papers describing harmonic-balance simulation methods that match both the time and frequency signals are included. The session emphasizes novel algorithms and models that enable the more accurate simulation of active circuits.

8:30 a.m.–10:00 a.m., Wednesday, June 14, 1989
Center Theater