

THURSDAY, JUNE 12, 1997

IEEE MTT-S IMS TECHNICAL SESSIONS

3:30–5:10 PM

TH4A Antennas and Systems for Personal Communications

Chair: R.K. Gupta, COMSAT Laboratories
Co-chair: W. Ou, OTC Telecomm

ROOM A201

- 3:30 PM TH4A-1: *An Adaptive Antenna Integrated with Automatic Gain Control for Receiver Front End*
J.L. Dawson, Dept. of EE, MIT, J. Lin, Bell Labs., Lucent Tech., Murray Hill, NJ

- 3:50 PM TH4A-2: *Finite-Difference Time-Domain Analysis of a Dual-Resonance and Shielded Cellular Antenna*
B. S. Yildirim, E. El-Sharawy, Dept. of EE, Arizona State Univ., Tempe, AZ

- 4:10 PM TH4A-3: *Microstrip-Fed Cylindrical Slot Antennas for GPS Avionics Applications*
C.H. Ho, P.K. Shumaker, K.B. Smith, J.W. Liao, Y.H. Wang, Garmin Int'l., Olathe, KS

- 4:20 PM
- 4:30 PM TH4A-4: *Performance of PCS Handset Antennas in Mobile Environments*
M.G. Douglas, M. Okoniewski, M.A. Stuchly, Dept. of ECE, Univ. of Victoria, Victoria, B.C., Canada

- 4:30 PM
- 4:50 PM TH4A-5: *The Implication of Nonlinear Effect on Direct-Sequence CDMA with Imperfect Power Control in Optical Transmission*
S. Geslin, A. Borjak, L. Moura, J.J. O'Reilly, EEE Dept., Univ. College London, London, UK

- 5:00 PM

TH4D Crosstalk, Coupling, and Multiconductor Transmission and Characterization

Chair: D. Williams, NIST
Co-chair: J. Laskar, Georgia Tech.

ROOM A101

- TH4D-1: *An Accurate Determination of the Characteristic Impedance Matrix of Symmetrical Coupled Lines on Chips Based on High Frequency S-Parameter Measurements*
T.-M. Winkel, IBM Deutschland Ent. GmbH, Boeblingen, Germany, L. Dutta, Siemens, Munich, Germany, H. Grabinski, LFI, Univ. Hannover, Hannover, Germany

- TH4D-2: *Characterization of Embedded Multiconductor Transmission Lines*
D. F. Williams, NIST, Boulder, CO

- TH4D-3: *Characterization of Multiconductor Coupled Lines from Multiport TDR Measurements*
A. Tripathi, V. K. Tripathi, Dept. of ECE, Oregon State Univ., Corvallis, OR

- TH4D-4: *Experimental Circuit Model Generation of Non-Uniform Coupled Multi-Conductor Structures*
S. Serbu, L. Martens, Dept. of Info. Tech., Univ. of Gent, Gent, Belgium

- TH4D-5: *Waveform Relaxation Synthesis of Time-Domain Characteristic Model of Coupled Transmission Lines from FDTD Simulation*
Q. Chu, F.-Y. Chang, Dept. of EE, Chinese Univ. of Hong Kong, New Territories, Hong Kong

- TH4D-6: *Excitation of the Parasitic Parallel-Plate Mode at Coplanar Discontinuities*
K. Beilenhoff, TH Darmstadt, Germany, W. Heinrich, Ferd.-Braun-Inst. Berlin, Germany

- TH4D-7: *Investigation of MMIC Inductor Coupling Effects*
M. Werthen, I. Wolff, IMST, Kamp-Lintfort, Germany, R. Keller, W. Bischof, Bosch Telekom GmbH, Backnang

TH4E Numerical Methods in Frequency Domain II

Chair: H.-Y. Yang, Univ. of Illinois-Chicago

ROOM A108

- TH4E-1: *Wavelet-Based CAD Modeling of Microstrip Discontinuities Using Least Square Prony's Method*
K.F. Sabet, EMAG Tech., Ann Arbor, MI, L.P.B. Katehi, Dept. of EECS, Univ. of Michigan, Ann Arbor, MI

- TH4E-2: *Diakoptics and the Multilevel Moments Method for Planar Circuits*
S. Ooms, D. De Zutter, Dept. Info. Tech., Univ. of Gent, Gent, Belgium

- TH4E-3: *Design of Planar Circuit Structures with an Efficient Magneto-Static Field Solver*
S. Lindenmeier, P. Russer, Lehr. HFtechnik, TU-Muenchen, Muenchen, Germany

- TH4E-4: *Influence of Conductor Loss and Thickness in Coplanar Circuit Elements*
L. Vietzorreck, W. Pascher, EE, Fern Univ., Hagen, Germany

- TH4E-5: *A Unified Method for Characterization of Microstrip and Waveguide Discontinuities of Irregular Shape*
T.-S. Horng, EE Dept., Nat'l. Sun Yat-Sen Univ., Taiwan, ROC