



IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES

A PUBLICATION OF THE IEEE MICROWAVE THEORY AND TECHNIQUES SOCIETY



NOVEMBER 2001

VOLUME 49

NUMBER 11

IETMAB

(ISSN 0018-9480)

SPECIAL ISSUE ON THE 2000 ASIA-PACIFIC MICROWAVE CONFERENCE

Guest Editorial *A. Parfitt* 2065

PAPERS

<i>K</i> -Band and Millimeter-Wave MMICs for Emerging Commercial Wireless Applications	<i>T. Tokumitsu</i>	2066
MMIC Development for Millimeter-Wave Space Application		
..... <i>T. Takagi, K. Yamauchi, Y. Itoh, S. Urasaki, M. Komaru, Y. Mitsui, H. Nakaguro, and Y. Kazekami</i>		2073
Ultra-Low-Noise Indium-Phosphide MMIC Amplifiers for 85–115 GHz	<i>J. W. Archer, R. Lai, and R. Gough</i>	2080
Analog MMICs for Millimeter-Wave Applications Based on a Commercial 0.14- μ m pHEMT Technology		
..... <i>H. Zirath, C. Fager, M. Garcia, P. Sakalas, L. Landen, and A. Alping</i>		2086
Self-Assembling MEMS Variable and Fixed RF Inductors		
..... <i>V. M. Lubecke, B. Barber, E. Chan, D. Lopez, M. E. Gross, and P. Gammel</i>		2093
Packaging Using Microelectromechanical Technologies and Planar Components		
..... <i>K. Takahashi, U. Sangawa, S. Fujita, M. Matsuo, T. Urabe, H. Ogura, and H. Yabuki</i>		2099
Measurement and Characterization of HEMT Dynamics	<i>A. E. Parker and J. G. Rathmell</i>	2105
Size-Reduction Techniques for CPW and ACPS Structures	<i>K. Hettak, T. Laneve, and M. G. Stubbs</i>	2112
Do We Really Need Ferroelectrics in Paraelectric Phase Only in Electrically Controlled Microwave Devices?		
..... <i>S. S. Gevorgian and E. L. Kollberg</i>		2117
Automated Computer-Controlled Tuning of Waveguide Filters Using Adaptive Network Models	<i>P. Harscher and R. Vahldieck</i>	2125
Maximizing Signal Strength for OFDM Inside Buildings	<i>E. P. Lawrey and C. J. Kikkert</i>	2131
Constant Flux Illumination of Square Cells for Millimeter-Wave Wireless Communications ..	<i>C. A. Fernandes and L. M. Anunciada</i>	2137
Performance Analysis of Smart Antenna Test-Bed Operating in a Wide-Band CDMA Channel	<i>H.-J. Im and S. Choi</i>	2142
An Iterative FEM for Scattering by a 3-D Cavity-Backed Aperture	<i>J. Park, J. Lee, H. Chae, and S. Nam</i>	2147
Modal Analysis of Waveguide Antennas With Arbitrary Cross Sections	<i>R. Kühne and J. Marquardt</i>	2152
Design and Characterization of a 120-GHz Millimeter-Wave Antenna for Integrated Photonic Transmitters		
..... <i>A. Hirata, H. Ishii, and T. Nagatsuma</i>		2157
Synergistic Design of DSP and Power Amplifiers for Wireless Communications	<i>P. M. Asbeck, L. E. Larson, and I. G. Galton</i>	2163
Information for Authors		2170

CALLS FOR PAPERS

Special Issue on Microelectromechanical Devices for RF Systems	2171
Special Issue on Wide-Bandgap Technologies	2172
