



IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES

A PUBLICATION OF THE IEEE MICROWAVE THEORY AND TECHNIQUES SOCIETY



JUNE 2001

VOLUME 49

NUMBER 6

IETMAB

(ISSN 0018-9480)

PART II OF TWO PARTS

SPECIAL ISSUE ON RF POWER AMPLIFICATION

Editorial *M. Steer, J. Sevic, and B. D. Geller* 1145

PAPERS

Improvement of Third-Order Intermodulation Product of RF and Microwave Amplifiers by Injection	1148
..... <i>C. S. Aitchison, M. Mbabele, M. R. Moazzam, D. Budimir, and F. Ali</i>	
High-Efficiency Push-Pull Power Amplifier Integrated with Quasi-Yagi Antenna.....	1155
..... <i>C. Y. Hang, W. R. Deal, Y. Qian, and T. Itoh</i>	
Maximum Efficiency and Output of Class-F Power Amplifiers	1162
Efficient Transmission-Power-Control Scheme for <i>Ku</i> -Band High-Power Amplifiers in Portable User Earth Terminals	1167
..... <i>H. Okazaki, T. Ohira, and K. Araki</i>	
Linearity of <i>X</i> -Band Class-F Power Amplifiers in High-Efficiency Transmitters.....	1174
..... <i>M. D. Weiss, F. H. Raab, and Z. Popović</i>	
A Phenomenologically Based Transient SPICE Model for Digitally Modulated RF Performance Characteristics of GaAs MESFETs.....	1180
..... <i>R. E. Leoni, III, M. S. Shirokov, J. Bao, and J. C. M. Hwang</i>	
A Novel Configuration for 1: <i>N</i> Multiport Power Dividers Using Series/Parallel Transmission-Line Division and a Polyimide/Alumina-Ceramic Structure for HPA Module Implementation.....	1187
..... <i>M. Nakatsugawa and K. Nishikawa</i>	
A Highly Efficient Linearized Wide-Band CDMA Handset Power Amplifier Based on Predistortion Under Various Bias Conditions	1194
..... <i>G. Hau, T. B. Nishimura, and N. Iwata</i>	
Transmission-Line Load-Network Topology for Class-E Power Amplifiers.....	1202
..... <i>A. J. Wilkinson and J. K. A. Everard</i>	

SHORT PAPERS

Millimeter-Wave Monolithic Power Amplifier for Mobile Broad-Band Systems	1211
..... <i>J. C. Vaz and J. C. Freire</i>	
A Second Harmonic Class-F Power Amplifier in Standard CMOS Technology.....	1216
..... <i>F. Fortes and M. J. do Rosário</i>	
