Abstracts

Future technologies for commercial and defense telecommunication electronics

A.K. Oki, D.C. Streit, R. Lai, K.W. Kobayashi, A. Gutierrez-Aitken and T. Block. "Future technologies for commercial and defense telecommunication electronics." 1999 MTT-S International Microwave Symposium Digest 99.3 (1999 Vol. III [MWSYM]): 1069-1071 vol.3.

Over the past decade there has been a tremendous shift in the microwave and millimeter wave industry from space and defense applications to the rapidly expanding commercial telecommunications market. The gallium arsenide based MESFET, PHEMT, and HBT technologies have found numerous applications in the wireless cellular handset, mmW LMDS, and fiber-optic telecom areas. First we will discuss the contention that traditional space and defense companies are best positioned to develop the next generation technologies required for leadership in these markets. Secondly we will discuss the advantages of indium phosphide based technologies to next-generation commercial telecommunication products.

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