PAPERS

Analog Simulation
Some Parametric Techniques in the Analog Solution of Ordinary Differential Equations ........ T. A. Newton 1

Cellular Logic
The Range of Logical Flexibility of Tree Networks .................... A. Maruoka and N. Honda 9

Combinational Logic
Modular Replacement of Combinational Switching Networks .......... D. C. Schmidt and G. Metze 29

Combinational Theory
The Application of the Rademacher–Walsh Transform to Boolean Function Classification and Threshold Logic Synthesis ................... C. R. Edwards 48

Fault Diagnosis
The Boolean Difference and Multiple Fault Analysis ................ C.-T. Ku and G. M. Masson 62

Logic Design
Synthesis Algorithms for 2-Level MOS Networks ..................... T.-K. Liu 72

Signal Processing

CORRESPONDENCE

Syntactic Recognition of Imperfectly Specified Patterns ............ M. G. Thomason and R. C. Gonzalez 93
A Parallel Mechanism for Detecting Curves in Pictures ............. P. M. Merlin and D. J. Farber 96
Optimal Piecewise Polynomial $L_2$ Approximation of Functions of One and Two Variables ................ T. Paclidis 98
The Constrained-Input Problem ........................................ F. M. Brown 102
Comments on “Closure Partition Method for Minimizing Incomplete Sequential Machines” .................. C.-C. Yang and M. K. Babinski 106
Author’s Reply .......................................................... P. N. Marinos 109

BOOK REVIEWS


Information for Authors .................................................... 112