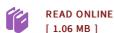


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Design And Implementation of 4X2 Compressors Using New XNOR Modules

By Thottempudi, Pardhu

Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Design of Ultra Low Power Compressors | I present a new design for a 1-bit fUll adder featuring hybrid-CMOS design style. My approach achieves low-energy operations in 90nm technology. Hybrid-CMOS design style makes use of various CMOS logic style circuits to build new ull adders with desired specifications. The new SERF- full adder (FA) circuit optimized for ultra low power operation is based on modified XOR gates with clock gating to minimize the power consumption. And also generales full-swing outputs simultaneously. The new full-adder circuit successfuUy operates at low voltages with excellent signal integrity. The new adder displayed better power and delay metrics as compared to the standard ull adders. To eval° ate the performance of the new full adder in a real circuit, we realized 4-2,5-2,5-3,7-2,11-2,15-4,31-5 compressors which are basically used in multiplier modules of DSP filters. Simulated results using 90nm standarad CMOS technology are provided. The simulation results show a 5% - 20% reduction in power and delay for frequency 50MHz and supply voltages range of 1.1 v. | Format: Paperback | Language/Sprache: english | 80 pp.



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