

# Logic Synthesis for Compositional Microprogram Control Units

By Alexander Barkalov

Springer-Verlag Gmbh Aug 2008, 2008. Buch. Condition: Neu. Neuware - One of the very important parts of any digital system is the control unit, coordin- ing interplay of other system blocks. As a rule, control units have irregular str- ture, which makes process of their logic circuits design very sophisticated. In case of complex logic controllers, the problem of system design is reduced practically to the design of control units. Actually, we observe a real technical boom connected with achievements in semiconductor technology. One of these is the development of integrated circuit known as the 'systems-on-a-programmable- chip' (SoPC), where the number of elements approaches one billion. Because of the extreme complexity of microchips, it is very important to develop effective design methods oriented on particular properties of logical elements. Solution of this problem permits impr- ing functional capabilities of the target digital system inside single SoPC chip. As majority of researches point out, design methods used in case of industrial packages are, in case of complex digital system design, far from optimal. Similar problems concern the design of control units with standard eld-programmable logic devices (FPLD), such as PLA, PAL, GAL, CPLD, and FPGA. Let us point out that modern...



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