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Architecture and CAD for Deep-Submicron FPGAS (The Springer International Series in Engineering and Computer Science)

Vaughn Betz, Jonathan Rose, Alexander Marquardt

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Since their introduction in 1984, Field-Programmable Gate Arrays (FPGAs) have become one of the most popular implementation media for digital circuits and have grown into a $2 billion per year industry. As process geometries have shrunk into the deep-submicron region, the logic capacity of FPGAs has greatly increased, making FPGAs a viable implementation alternative for larger and larger designs. To make the best use of these new deep-submicron processes, one must re-design one's FPGAs and Computer- Aided Design (CAD) tools.
Architecture and CAD for Deep-Submicron FPGAs addresses several key issues in the design of high-performance FPGA architectures and CAD tools, with particular emphasis on issues that are important for FPGAs implemented in deep-submicron processes.
Three factors combine to determine the performance of an FPGA: the quality of the CAD tools used to map circuits into the FPGA, the quality of the FPGA architecture, and the electrical (i.e. transistor-level) design of the FPGA. *Architecture and CAD for Deep-Submicron FPGAs* examines all three of these issues in concert. In order to investigate the quality of different FPGA architectures, one needs CAD tools capable of automatically implementing circuits in each FPGA architecture of interest. Once a circuit has been implemented in an FPGA architecture, one next needs accurate area and delay models to evaluate the quality (speed achieved, area required) of the circuit implementation in the FPGA architecture under test. This book therefore has three major foci: the development of a high-quality and highly *flexible* CAD infrastructure, the creation of accurate area and delay models for FPGAs, and the study of several important FPGA architectural issues.
Architecture and CAD for Deep-Submicron FPGAs is an essential reference for researchers, professionals and students interested in FPGAs.

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Precisely why? Because this Architecture and CAD for Deep-Submicron FPGAS (The Springer International Series in Engineering and Computer Science) is an unordinary book that the inside of the guide waiting for you to snap this but latter it will shock you with the secret it inside. Reading this book close to it was fantastic author who all write the book in such incredible way makes the content interior easier to understand, entertaining means but still convey the meaning entirely. So , it is good for you because of not hesitating having this nowadays or you going to regret it. This excellent book will give you a lot of advantages than the other book have such as help improving your talent and your critical thinking technique. So , still want to hold up having that book? If I were you I will go to the e-book store hurriedly.

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