Esl Design of Object-oriented Applications: The Odyssey Approach (Computer Science, Technology and Applications)

By Maziar Goudarzi, Shaahin Hessabi

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The ODYSSEY methodology takes an unconventional approach to designing at Electronic System Level (ESL): it expands the traditional definition of the processor instruction-set and introduces a new class of processors whose instructions correspond to the methods of an object oriented class library. These new processors, called Object-Oriented Application-Specific Instruction Processor (OO-ASIP), provide a versatile vehicle to explore the synergy between hardware and software not only when implementing an OO application for the first time, but also more significantly, when expanding an existing product for additional functionality or customization. This book provides ESL researchers and practitioners with the theory behind this methodology, as well as the practice of implementing it in a design flow from C++ to FPGA board.

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