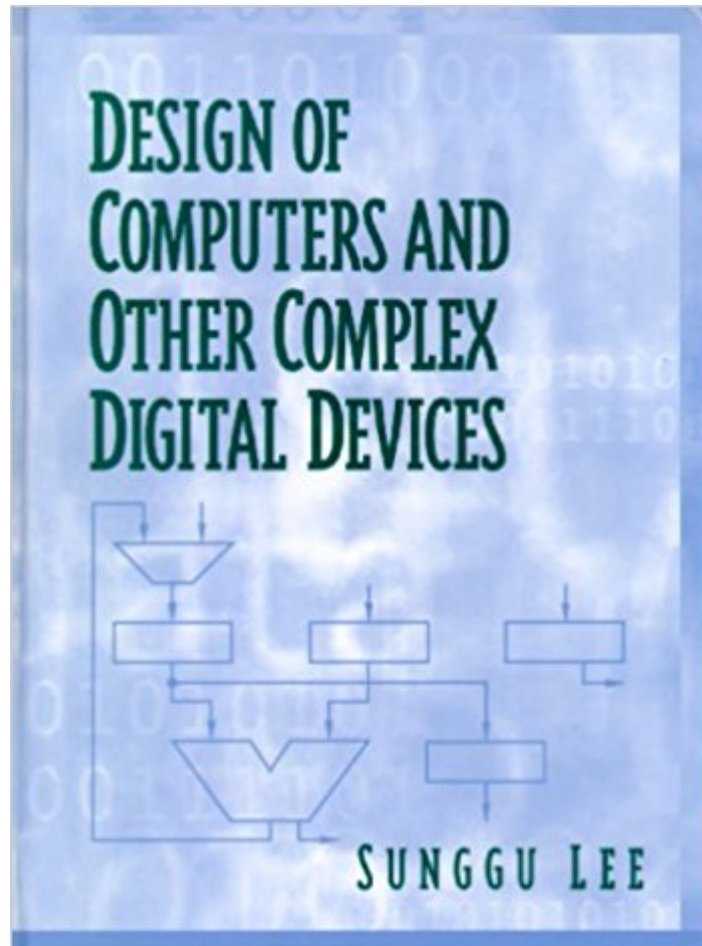


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# Design Of Computers And Other Complex Digital Devices



## Synopsis

Intended for junior/senior level advanced Computer Design courses in departments of electrical engineering and computer related departments. This text serves as a practical guide for the design of complex digital logic circuits, utilizing a modified and extended version of the basic ASM (Algorithmic State Machine) method. Unlike other texts, this text focuses on computer design rather than computer architecture, dealing with the detailed gate-level logic design of a basic computer system. It teaches the theory behind advanced digital design and uses several examples to help illustrate and clarify concepts and methods required for the design and implementation of a commercial microprocessor.

## Book Information

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## Customer Reviews

The author provides in-depth explanation of the advantages of using ASM for digital designs plus some explanation on the design methodology towards FPGA (Xilinx). Lots of design examples in ASM and the equivalent VHDL codes for users to try, learn and understand. Suitable for beginners and advanced designers to start trying the ASM design methodology to take advantage of the systematic and heuristic design approach using ASM as introduced by the author. In fact, there're tools supporting the direct ASM approach, and the book would become a very good methodology reference.

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