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4.3 Add and Subtract for Redundant Codes4.4 Binary Multiplication; 4.5 Sequential Adders, Multipliers and Multiply-Add Structures; 4.6 Distributed Arithmetic; 4.7 Division and Square Root; 4.8 Floating Point Operations and Functions; 4.9 Polynomial Arithmetic; 4.10 Summary; Exercises; 5 Sequential Control Circuits; 5.1 Mealy and Moore Automata; 5.2 Scheduling, Operand Selection and the Storage Automaton; 5.3 Designing the Control Automaton; 5.4 Sequencing with Counter and Shift Register Circuits; 5.5 Implementing the Control Flow; 5.6 Synchronization; 5.7 Summary; Exercises
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6.5.2 Parallel and Serial Interfaces, Counters and Timers

Sommario/riassunto

The recent evolution of digital technology has resulted in the design of digital processors with increasingly complex capabilities. The implementation of hardware/software co-design methodologies provides new opportunities for the development of low power, high speed DSPs and processor networks. Dedicated digital processors are digital processors with an application specific computational task. Dedicated Digital Processors presents an integrated and accessible approach to digital processor design principles, processes, and implementations based upon the author's considerable experienc