



Digital Signal Processing with Field Programmable Gate Arrays (Signals and Communication Technology)

Uwe Meyer-Baese

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Field-Programmable Gate Arrays (FPGAs) are revolutionizing digital signal processing. The efficient implementation of front-end digital signal processing algorithms is the main goal of this book. It starts with an overview of today's FPGA technology, devices and tools for designing state-of-the-art DSP systems. A case study in the first chapter is the basis for more than 40 design examples throughout. The following chapters deal with computer arithmetic concepts, theory and the implementation of FIR and IIR filters, multirate digital signal processing systems, DFT and FFT algorithms, advanced algorithms with high future potential, and adaptive filters. Each chapter contains exercises. The VERILOG source code and a glossary are given in the appendices. This new edition incorporates

- Over 10 new system level case studies designed in VHDL and Verilog
- A new chapter on image and video processing
- An Altera Quartus update and new Model Sim simulations
- Xilinx Atlys board and ISIM simulation support
- Signed fixed point and floating point IEEE library examples
- An overview on parallel all-pass IIR filter design
- ICA and PCA system level designs
- Speech and audio coding for MP3 and ADPCM

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