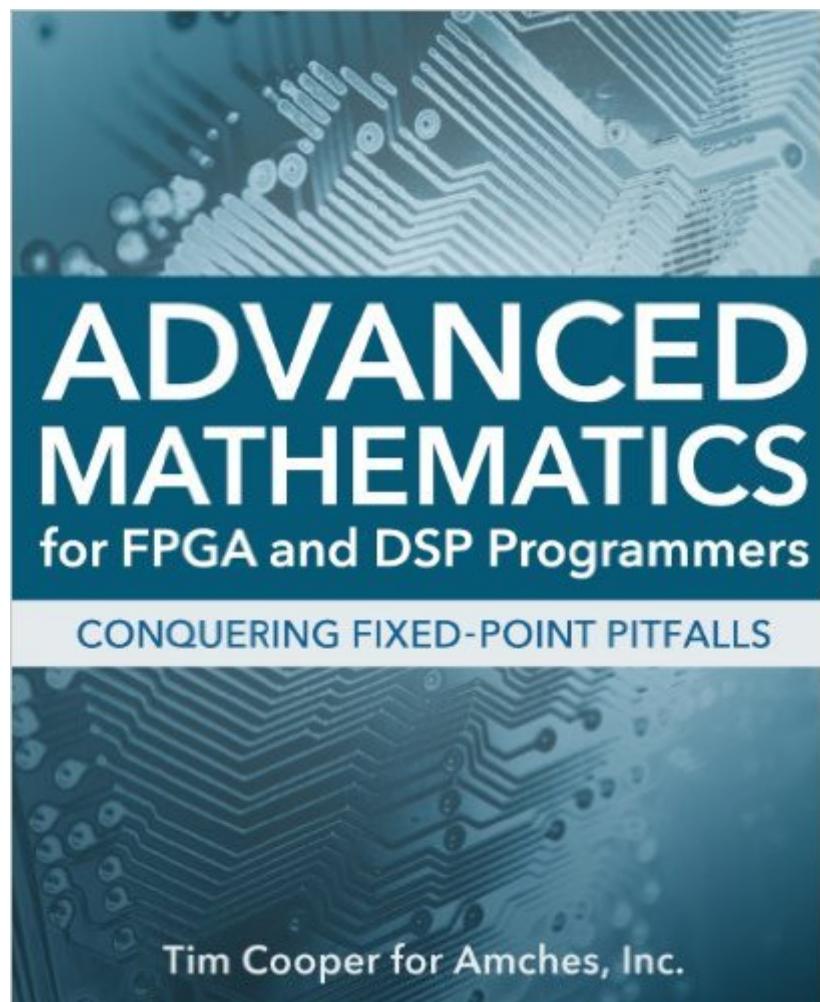


The book was found

# Advanced Mathematics For FPGA And DSP Programmers



## Synopsis

Advanced Mathematics for FPGA and DSP Programmers covers the mathematical concepts involved in FPGA and DSP programming that can make or break a project. Coverage includes Numbers and Representation, Signals and Noise, Complex Arithmetic, Statistics, Correlation and Convolution, Frequencies, The FFT, Filters, Decimating and Interpolating, Practical Applications, Dot Product Applications, and a glossary of DSP arithmetical terms. About the Author Tim Cooper has been developing real-time embedded and signal processing software for commercial and military applications for over 30 years. Mr. Cooper has authored numerous device drivers, board support packages, and signal processing applications for real-time-operating systems. Mr. Cooper has also authored high-performance signal processing libraries based on SIMD architectures. Other signal processing experience includes MATLAB algorithm development and verification, and working with FPGA engineers to implement and validate signal processing algorithms in VHDL. Much of Mr. Cooper's experience involves software development for systems having hard real-time requirements and deeply embedded processors, where software reliability, performance, and latency are significant cost drivers. Such systems typically require innovative embedded instrumentation that collects performance data without competing for processing resources. Mr. Cooper holds a Bachelor of Science in Computer Sciences and a Master's degree in Computer and Electronics Engineering from George Mason University.

## Book Information

Paperback: 272 pages

Publisher: Leapin Leo Press (March 1, 2014)

Language: English

ISBN-10: 0979058112

ISBN-13: 978-0979058110

Product Dimensions: 7.5 x 0.6 x 9.2 inches

Shipping Weight: 1 pounds (View shipping rates and policies)

Average Customer Review: 4.0 out of 5 starsÂ  See all reviewsÂ (2 customer reviews)

Best Sellers Rank: #1,764,488 in Books (See Top 100 in Books) #63 in Books > Computers & Technology > Hardware & DIY > Microprocessors & System Design > DSPs #261 in Books > Engineering & Transportation > Engineering > Telecommunications & Sensors > Signal Processing #3718 in Books > Engineering & Transportation > Engineering > Electrical & Electronics > Electronics

## Customer Reviews

If you are looking for a book with page after page of esoteric DSP-related mathematical formulas then this book is not for you. However if you are looking for simple, clear and well organized explanations related to a very difficult subject then read on! Mr. Cooper does an excellent job of explaining both the mathematical and the engineering concepts with plenty of examples. IMHO the title of the book should have been something along the lines of "FPGA and DSP Mathematical Applications: A Practical Guide and Tutorial"

The book has some useful tips and general concepts, but it doesn't go very deep in either implementation or mathematics.

[Download to continue reading...](#)

Advanced Mathematics for FPGA and DSP Programmers Advanced Mathematics for FPGA and DSP Programmers: Conquering Fixed-Point Pitfalls Design of Softcore DSP Processors on FPGA Chips DSP without math: A brief introduction to DSP The Art of DSP: An innovative introduction to DSP Advanced Digital Logic Design Using VHDL, State Machines, and Synthesis for FPGA's Practical FPGA Programming in C FPGA Prototyping By Verilog Examples: Xilinx Spartan-3 Version 100 Power Tips for FPGA Designers FPGA-Based Prototyping Methodology Manual: Best Practices in Design-For-Prototyping Advanced Mathematics for Engineers with Applications in Stochastic Processes. Aliakbar Montazer Haghghi, Jian-Ao Lian, Dimitar P. Mishev (Mathematics Research Developments) Active Noise Control Systems: Algorithms and DSP Implementations (Wiley Series in Telecommunications and Signal Processing) Communication System Design Using DSP Algorithms: With Laboratory Experiments for the TMS320C6701 and TMS320C6711 (Information Technology: Transmission, Processing and Storage) DSP Software Development Techniques for Embedded and Real-Time Systems (Embedded Technology) DSP Processor Fundamentals: Architectures and Features Communications Receivers: DSP, Software Radios, and Design Communication System Design Using DSP Algorithms: With Laboratory Experiments for the TMS320C6713TM DSK (Information Technology: Transmission, Processing and Storage) Mixed-signal and DSP Design Techniques (Analog Devices) DSP Applications Using C and the TMS320C6x DSK DSP for Embedded and Real-Time Systems

[Dmca](#)