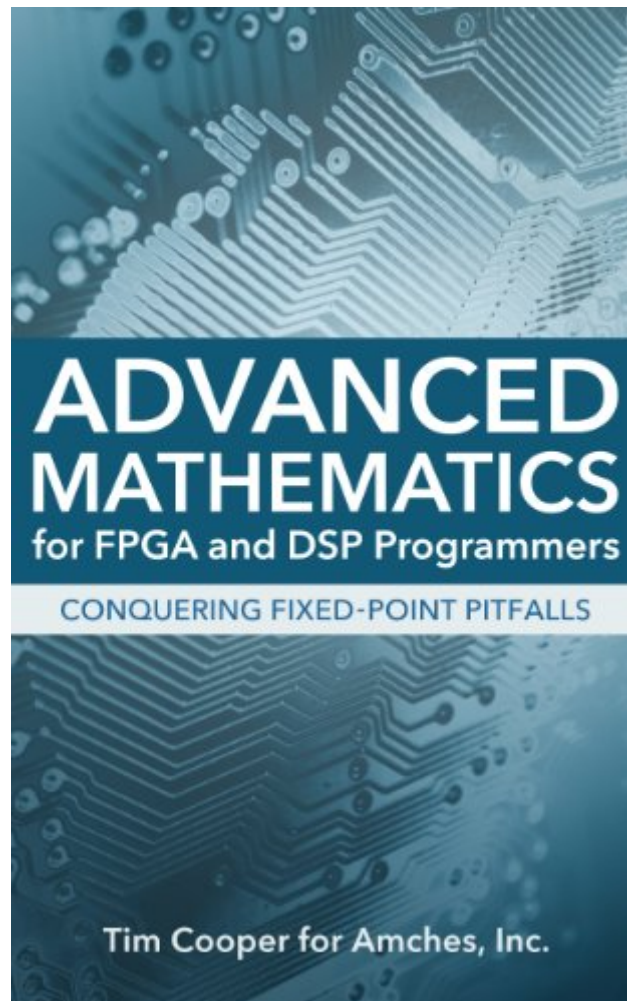


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# Advanced Mathematics For FPGA And DSP Programmers: Conquering Fixed-Point Pitfalls



## 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. Many of the graphs and images are in color. Advanced Mathematics is best viewed on a Kindle Fire.

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

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## 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.

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