Mixed-signal and DSP Design Techniques (Analog Devices)

Walt Kester
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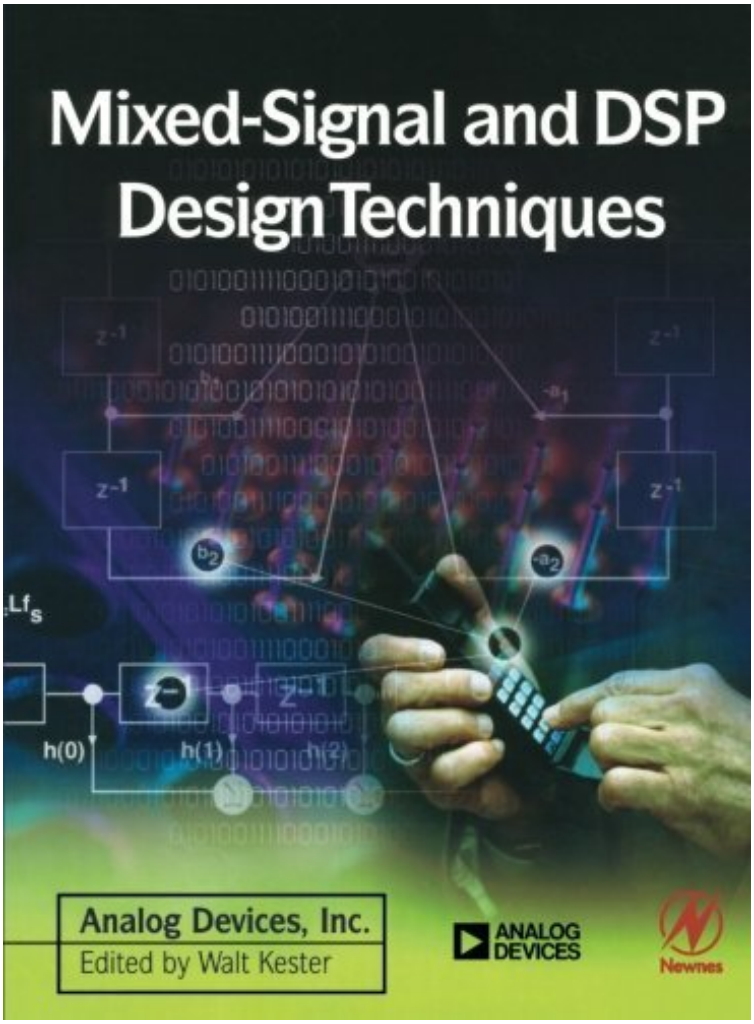

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Walt Kester : Mixed-signal and DSP Design Techniques (Analog Devices) before purchasing it in order to gage whether or not it would be worth my time, and all praised Mixed-signal and DSP Design Techniques (Analog Devices):

0 of 0 people found the following review helpful. Excellent practical guide to DSPBy G. SladeI recommend this book for those who want a good practical guide to implementing a DSP engine using Analog Devices processors. Although the focus is on some of the earlier DSP chips, the techniques are still valid for the newer (and much faster) processors like the Blackfin series.Using this book in conjunction with the chip hardware reference manual and an operating system/programming manual (like C for uClinux on the Blackfin), powerful applications can be easily developed that scream along in (nearly) real time!1 of 1 people found the following review helpful. The companion to the Data Conversion HandbookBy JayBeWhen you order the A-D Data Conversion Handbook, order this with it. Excellent, hands-on advice about how to build mixed-signal circuits, which are by nature difficult and tricky to avoid the typical

EMI problems and the like. Highly recommended.0 of 0 people found the following review helpful. connect the basic theory to real-world applicationBy JJ YouI'd like this book, especially the two part:1)section 10 Hardware Design Techniques.The author simplify discuss some technique of real-world application, including voltage-gap interference between 5V and lower voltage; decrease noise between analog and digital circuit. I think it is very useful.2)From section 2 to section 6The authors explain the real-world DSP/Filter application and troubleshooting, without difficult mathmatically. Most of us learn about the filter design in class, with the book "Discrete-Time Signal Processing, by Alan V. Oppenheim and Ronald W. Schafer, Prentice Hall". I know this book is very important and it did let us know why. Anyway, I bet most guys forget the detail,...The authors just used simple figures to explaining those technical notes, that you will meet in the clinical using. Thus it closed the gap between basic theory and clinical use.I'd like very much about the "Sigma-Delta ADC" in section 3. This is the first time I finally know what it is, with little basic knowledge of frequency domain, without difficult mathematics. Thanks to Walt Kester and James Bryant.Anyway, the section 7,8 is focused on Analog Device Ltd DSP chip; and section 9 istoo rough.

The reader is provided with information on how to choose between the techniques and how to design a system that takes advantage of the best features of each of them. Imminently practical in approach, the book covers sampled data systems, choosing A-to-D and D-to-A converters for DSP applications, fast Fourier transforms, digital filters, selecting DSP hardware, interfacing to DSP chips, and hardware design techniques. It contains a number of application designs with thorough explanations. Heavily illustrated, the book contains all the design reference information that engineers need when developing mixed and digital signal processing systems.*Brought to you from the experts at Analog Devices, Inc.*A must for any electrical, electronics or mechanical engineer's reference shelf*Design-oriented, practical volume