



Digital Signal Processing Using the ARM Cortex M4

Donald S. Reay

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Features inexpensive ARM® Cortex®-M4 microcontroller development systems available from Texas Instruments and STMicroelectronics.

This book presents a hands-on approach to teaching Digital Signal Processing (DSP) with real-time examples using the ARM® Cortex®-M4 32-bit microprocessor. Real-time examples using analog input and output signals are provided, giving visible (using an oscilloscope) and audible (using a speaker or headphones) results. Signal generators and/or audio sources, e.g. iPods, can be used to provide experimental input signals. The text also covers the fundamental concepts of digital signal processing such as analog-to-digital and digital-to-analog conversion, FIR and IIR filtering, Fourier transforms, and adaptive filtering.

Digital Signal Processing Using the ARM® Cortex®-M4:

- Uses a large number of simple example programs illustrating DSP concepts in real-time, in an electrical engineering laboratory setting
- Includes examples for both STM32F407 Discovery and the TM4C123 Launchpad, using *Keil MDK-ARM*, on a companion website
- Example programs for the TM4C123 Launchpad using *Code Composer Studio version 6* available on companion website

Digital Signal Processing Using the ARM® Cortex®-M4 serves as a teaching aid for university professors wishing to teach DSP using laboratory experiments, and for students or engineers wishing to study DSP using the inexpensive ARM® Cortex®-M4.

Donald Reay is a lecturer in electrical engineering at Heriot-Watt University in Edinburgh, Scotland. He has also taught hands-on DSP, on a number of occasions, as a visiting lecturer at Zhejiang University in Hangzhou, China. He co-authored *Digital Signal Processing and Applications with the TMS320C6713 and TMS320C6416 DSK, Second Edition* (Wiley 2008) with Rulph Chassaing, and is the author of *Digital Signal Processing and Applications with the OMAP-L138 eXperimenter* (Wiley 2012).

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