



# Real-Time Digital Signal Processing from MATLAB to C with the TMS320C6x DSK

*By Thad B. Welch, Cameron H.G. Wright, Michael G. Morrow*

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From personal music players to anti-lock brakes and advanced digital flight controllers, the demand for real-time digital signal processing (DSP) continues to grow. Mastering real-time DSP is one of the most challenging and time-consuming pursuits in the field, exacerbated by the lack of a resource that solidly bridges the gap between theory and practice. Recognizing that there is a better way forward, accomplished experts Welch, Wright, and Morrow offer Real-Time Digital Signal Processing from MATLAB to C with the TMS320C6x DSK.

This book collects all of the necessary tools in a single, field-tested source of unrivaled authority. The authors seamlessly integrate theory with easy-to-use, inexpensive hardware and software tools in an approachable and hands-on manner. Using abundant examples and exercises in a step-by-step approach, they work from familiar interfaces such as MATLAB® to running algorithms in real-time on industry-standard DSP hardware. For each concept, the book uses a four-step methodology: a brief review of relevant theory; demonstration of the concept in winDSK6, an easy-to-use software tool; explanation and demonstration of MATLAB techniques for implementation; and explanation of the necessary C code to implement the algorithms in real time.

Covering a broad spectrum of topics in a hands-on, concise, and approachable way, Real-Time Digital Signal Processing from MATLAB to C with the TMS320C6x DSK paves the way toward mastery of real-time DSP. Essential source code is available for download.

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### **Editorial Review**

#### **Review**

This book has taken a bold step forward. It not only presents the theory, it reinforces it with simulations, and then it shows us how to actually use the results in real-time applications. This last step is not a trivial step, and that is why so many books and courses present only theory and simulations. With the combined expertise of the three authors ... the reader can step into the real-time world of applications with a text that presents an accessible path.

-From the Foreword by Delores M. Etter, Professor of Electrical Engineering, Distinguished Chair in Science and Technology, United States Naval Academy, Annapolis, Maryland

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