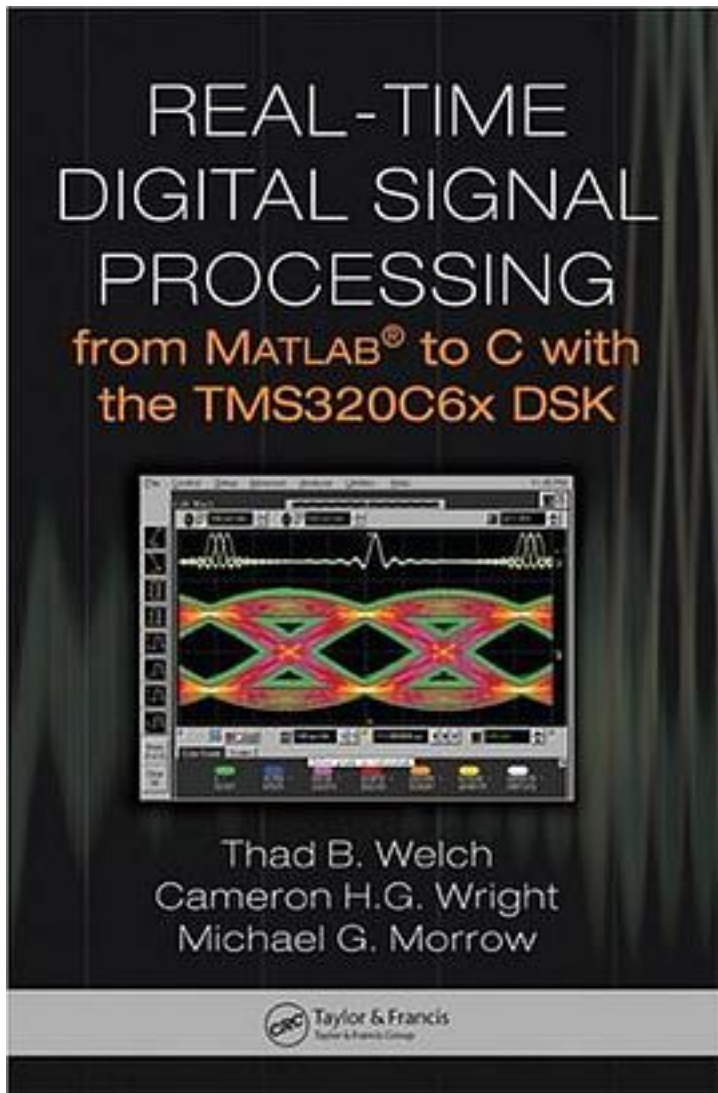# Real-Time Digital Signal Processing from MATLAB to C with the TMS320C6x DSK

[Real-Time Digital Signal Processing from MATLAB to C with the TMS320C6x DSK_下载链接1_](#)

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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[registered] 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.

作者介绍:

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