# Digital Signal Processing and Applications with the TMS320C6713 and TMS320C6416 DSK

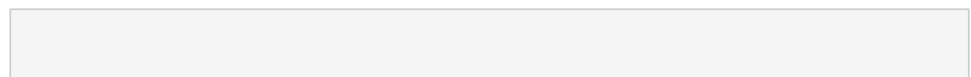*By Rulph Chassaing, Donald S. Reay*

**Digital Signal Processing and Applications with the TMS320C6713 and TMS320C6416 DSK** By Rulph Chassaing, Donald S. Reay

**Now in a new edition—the most comprehensive, hands-on introduction to digital signal processing**

The first edition of *Digital Signal Processing and Applications with the TMS320C6713 and TMS320C6416 DSK* is widely accepted as the most extensive text available on the hands-on teaching of Digital Signal Processing (DSP). Now, it has been fully updated in this valuable Second Edition to be compatible with the latest version (3.1) of Texas Instruments Code Composer Studio (CCS) development environment. Maintaining the original's comprehensive, hands-on approach that has made it an instructor's favorite, this new edition also features:

- Added program examples that illustrate DSP concepts in real-time and in the laboratory
- Expanded coverage of analog input and output
- New material on frame-based processing
- A revised chapter on IIR, which includes a number of floating-point example programs that explore IIR filters more comprehensively
- More extensive coverage of DSP/BIOS
- All programs listed in the text—plus additional applications—which are available on a companion CD-ROM

No other book provides such an extensive or comprehensive set of program examples to aid instructors in teaching DSP in a laboratory using audio frequency signals—making this an ideal text for DSP courses at the senior undergraduate and postgraduate levels. It also serves as a valuable resource for researchers, DSP developers, business managers, and technology solution providers who are looking for an overview and examples of DSP algorithms implemented using the TMS320C6713 and TMS320C6416 DSK.

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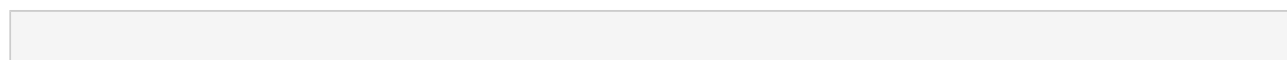**Now in a new edition—the most comprehensive, hands-on introduction to digital signal processing**

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## Editorial Review

Review
"While there are numerous texts on DSP, this one is very useful due to the succinct style of presentation and the inclusion of many illustrative programming examples and student projects. The typesetting and layout are praiseworthy, and the coverage of topics is laudable." (*Computing Reviews*, October 1, 2008)

From the Back Cover
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About the Author
The late **Rulph Chassaing**, PhD, taught Real-Time DSP at Worcester Polytechnic Institute. In addition to offering many DSP training workshops and seminars, he authored four other books: *DSP Applications Using C and the TMS320C6x DSK*; *Digital Signal Processing: Laboratory Experiments Using C and the TMS320C31 DSK*; *Digital Signal Processing with C and the TMS320C30*; and *Digital Signal Processing with C and the TMS320C25*, all published by Wiley.

**Donald Reay**, PhD, is a Lecturer in the School of Engineering and Physical Sciences at Heriot-Watt University in Edinburgh, Scotland.

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