Real-Time Digital Signal Processing,: Implementations, Application and Experiments with the TMS320C55X

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Real-time functionality is the latest challenge facing high performance digital signal processors and DSP applications. Its successful deployment requires a thorough understanding of DSP theory as well as mastery of skills in real-time DSP design and implementation techniques. With this in mind Real-time Digital Signal Processing offers readers a hands-on tutorial approach, using the latest Texas Instruments TM320C55x processor in illustrative experiments and field applications. Features include: A wealth of lab-exercises and experiments using MATLAB, C and the TMS320C55x assembly language, covering everything from basic concepts to telecommunications applications. A review of the fundamentals of real-time DSP theories in practice, plus programming examples using the Code Composer Studio development environment. Guidance on the selection of DSP chips to suit a variety of applications along with a consideration of real-time constraints, hardware options and fixed and floating point devices. Accompanying website providing software for use with the end-of-chapter experiments detailed throughout the book. This practical guide will prove a valuable tool for students of digital signal processing and a self-contained reference for practising engineers and systems programmers developing new DSP applications.

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