

1. Record Nr.	UNINA9910142531903321
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Titolo	Real-Time Digital Signal Processing: Implementations, Applications and Experiments with the TMS320C55X
Pubbl/distr/stampa	[Place of publication not identified], : John Wiley & Sons Incorporated, 2001
ISBN	1-280-55452-5 9786610554522 0-470-84534-1
Descrizione fisica	1 online resource (503 pages)
Disciplina	621.3822
Soggetti	Electrical & Computer Engineering Engineering & Applied Sciences Telecommunications
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Sommario/riassunto	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.
