

4th Edition

Digital Signal Processing

Using MATLAB®

A Problem Solving Companion

Solution Manual

Vinay K. Ingle • John G. Proakis

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Morrow, 2005-12-21 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 *Introduction to Digital Signal Processing and Filter Design* B. A. Shenoi, 2005-10-24 A practical and accessible guide to understanding digital signal processing Introduction to Digital Signal Processing and Filter Design was developed and fine tuned from the author's twenty five years of experience teaching classes in digital signal processing Following a step by step approach students and professionals quickly master the fundamental concepts and applications of discrete time signals and systems as well as the synthesis of these systems to meet specifications in the time and frequency domains Striking the right balance between mathematical derivations and theory the book features Discrete time signals and systems Linear difference equations Solutions by recursive algorithms Convolution Time and frequency domain analysis Discrete Fourier series Design of FIR and IIR filters Practical methods for hardware implementation A unique feature of this book is a complete chapter on the use of a MATLAB r tool known as the FDA Filter Design and Analysis tool to investigate the effect of finite word length and different formats of quantization different realization structures and different methods for filter design This chapter contains material

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platform to enhance readers understanding of the material Striking the appropriate balance between theory and real life applications this book provides both advanced students and professionals in the field with a valuable reference that they will continually consult

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