



River Publishers

An Introduction to Digital Signal Processing A Focus on Implementation

Author: Stanley Henry Mneney, CTIF, Aalborg University/University of KwaZulu-Natal, South Africa

An Introduction to Digital Signal Processing aims at undergraduate students who have basic knowledge in C programming, Circuit Theory, Systems and Simulations, and Spectral Analysis. The book is focused on basic concepts of digital signal processing, MATLAB simulation and implementation on selected DSP hardware in which the candidate is introduced to the basic concepts first before embarking to the practical part which comes in the later chapters.

Initially Digital Signal Processing evolved as a postgraduate course which slowly filtered into the undergraduate curriculum as a simplified version of the latter. The goal was to study DSP concepts and to provide a foundation for further research where new and more efficient concepts and algorithms can be developed. Though this was very useful it did not arm the student with all the necessary tools that many industries using DSP technology would require to develop applications.

This book is an attempt to bridge the gap. It is focused on basic concepts of digital signal processing, MATLAB simulation and implementation on selected DSP hardware. The objective is to win the student to use a variety of development tools to develop applications.

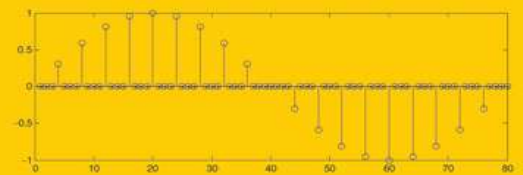
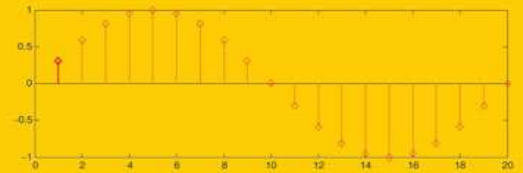
< <Contents

- Introduction to Digital Signal processing.
- The transform domain analysis: the Discrete-Time Fourier Transform
- The transform domain analysis: the Discrete Fourier Transform
- The transform domain analysis: the z-transform
- Review of Analogue Filter
- Digital filter design.
- Digital Signal Processing Implementation Issues
- Digital Signal Processing Hardware and Software
- Examples of DSK Filter Implementation

River Publishers Series on Signal Processing

An Introduction to Digital Signal Processing: A Focus on Implementation

Stanley H. Mneney



River Publishers

River Publishers Series in Signal, Image and Speech Processing

ISBN: 9788792329127

e-ISBN: 9788792982032

Available From: December 2008

Price: € 70.00

KEYWORDS:

An Introduction to Digital Signal Processing A Focus on Implementation



www.riverpublishers.com
marketing@riverpublishers.com