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Engineering : Signal, Image and Speech Processing

Sundararajan, Dr. D.

Digital Signal Processing

An Introduction

- Written to be accessible to students of varying backgrounds, this textbook explains digital signal processing from both a theoretical and practical point of view
- Presents concepts in a clear, concise and comprehensive manner, so that students can learn easily this highly mathematical topic
- Provides detailed coverage of various types of filter design, including an introduction to the discrete wavelet transform
- Includes worked examples throughout every chapter, with an emphasis on real applications
- Includes numerous exercises at the end of each chapter

This textbook for a one semester introductory course in digital signal processing for senior undergraduate and first year graduate students in electrical and computer engineering departments is concise, highly readable, and yet provides comprehensive coverage of the topic. Each new topic is presented with examples and figures. The highly mathematical content of the topic is presented lucidly to make the learning the subject easier. Practical aspects of the subject are clearly indicated so that the student can apply the principles in real applications. Matlab programs for FIR filter design are provided as supplementary material online.

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