Multimedia Signals and Systems

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Multimedia Signals and Systems is a technical introductory level multimedia textbook, including problems, examples, and MATLAB® codes. It will be a stepping-stone for readers who want to research in audio processing, image and video processing, and data compression.

This volume will also be useful to readers who are carrying out research and development in systems areas such as television engineering and storage media.

Anyone who seeks to learn the core multimedia signal processing techniques and systems will need *Multimedia Signals and Systems*. There are many chapters that are generic in nature and provide key concepts of multimedia systems to technical as well as non-technical persons. There are also several chapters that provide a mathematical/analytical framework for basic multimedia signal processing. The readers are expected to have some prior knowledge about discrete signals and systems, such as Fourier transform and digital filters. However, a brief review of these theories is provided.

The accompanying CD provides several MATLAB® codes along with a few test data samples; e.g., audio, image and video.

Multimedia Signals and Systems is suitable for advanced-level courses in multimedia and is also a well-needed addition to the professional reference library in this area.