Digital Signal Processors

Architecture, Programming and Applications

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The book is designed for a first course in Digital Signal Processors. It blends the Digital Signal Processing theory with its applications on systems using Digital Signal Processors.

Salient Features

- Exposure to DSP architectures and various commercial Digital Signal Processors
- Discusses a wide variety of Texas Instruments (TI) DSP chips including C3X, C5X, C563XX and C6X
- Detailed analysis and explanations of architecture, instructions and applications of each of these TI processors
- A chapter on other ways of realizing DSP design including FPGAs
- An overview of Motorola's DSP563XX processors
- Usage and application of the CODE COMPOSER STUDIO software for design and testing of DSP-based systems
- Pedagogy Rich
  - 243 Illustrations
  - 244 Review Questions
  - 280 Self-test questions.