Digital Signal Processing Laboratorty

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Given the rapid software and hardware developments in DSP, it is vital for students to complement their theoretical learning with practical applications. Digital Signal Processing Laboratory is a practical, readily understandable text for those studying DSP for the first time. The author acquaints students with an integrated approach consisting of side-by-side training in theory and hardware/software aspects of DSP, making it ideal for the companion laboratory to a class in DSP theory.

To execute this approach, each chapter consists of a brief section on theory to explain the underlying mathematics and principles, a problem solving section, and a computer laboratory section with programming examples and exercises using MATLAB and Simulink. Applicable chapters include a hardware laboratory section composed of exercises using test and measuring equipment. The author discusses the theory of DSP applications and systems, LTI discrete-time signals and systems, practical time and frequency analysis of discrete-time signals, Analog-to-Digital (A/D) process, design and application of digital filters, and the application of practical DSP processes through the DSP hardware, along with software models of these systems.

This textbook/lab manual offers a concise, easily understood presentation that makes the information accessible to senior undergraduate and graduate students while building their proficiency with the software, the hardware, and the theory of DSP. Students can easily adapt the concepts for different software/hardware conditions than those presented within, making this an extremely versatile and valuable resource.

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