Foundations of digital signal processing: theory, algorithms and hardware design

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Abstrak

An excellent introductory text, this book covers the basic theoretical, algorithmic and real-time aspects of digital signal processing (DSP). Detailed information is provided on off-line, real-time and DSP programming and the reader is effortlessly guided through advanced topics such as DSP hardware design, FIR and IIR filter design and difference equation manipulation. There are many practical examples illustrated throughout plus an accompanying CD which provides programs that demonstrate equations discussed in the text, enabling the reader to incorporate algorithms into their own DSP programs.