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~~Digital Signal Processing: A Practical Guide for Engineers ...~~

Modern coverage of the fundamentals, implementation and applications of digital signal processing techniques from a practical point of view. The past ten years has seen a significant growth in DSP applications throughout all areas of technology and this growth is expected well into the next millennium.

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Description. The aim of this book is to introduce the general area of Digital Signal Processing from a practical point of view with a working minimum of mathematics. The emphasis is placed on the practical applications of DSP: implementation issues, tricks and pitfalls. Intuitive explanations and appropriate examples are used to develop a fundamental understanding of DSP theory, laying a firm foundation for the reader to pursue the matter further.

~~Practical Digital Signal Processing | ScienceDirect~~

Digital Signal Processing A Practical Guide for Engineers and Scientists. Book □ 2002. Authors: Steven W. Smith. Digital Signal Processing A Practical Guide for Engineers and Scientists.

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Description. Modern coverage of the fundamentals, implementation and applications of digital signal processing techniques from a practical point of view. This successful textbook covers most aspects of DSP found in undergraduate electrical, electronic or communications engineering courses. Unlike many other texts, it also covers a number of DSP techniques which are of particular relevance to industry such as adaptive filtering and multirate processing.

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A very good example of complex signal processing is seen in digital systems that employ a front-end tuner. These systems fall into a category that can be loosely categorized as "digital radio," in that an input wideband signal is tuned up or down in frequency and passed through a band pass or low pass filter to isolate some narrow band of interest.

~~Book: Practical Applications in Digital Signal Processing ...~~

Practical applications in digital signal processing / Richard Newbold. pages cm Includes bibliographical references and index. ISBN-13: 978-0-13-303838-5 (hardcover : alk. paper) ISBN-10: 0-13-303838-6 (hardcover : alk. paper) 1. Signal processing—Digital techniques. 2. Electric filters, Digital. I. Title. TK5102.9.N49 2013 621.382'2—dc23 ...

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Audio Processing; Echo Location; Image Processing; Chapter 2 - Statistics, Probability and Noise. Signal and Graph Terminology; Mean and Standard Deviation; Signal vs. Underlying Process; The Histogram, Pmf and Pdf; The Normal Distribution; Digital Noise Generation; Precision and Accuracy; Chapter 3 - ADC and DAC. Quantization; The Sampling Theorem

~~The Scientist and Engineer's Guide to Digital Signal ...~~

Digital signal processing is the use of digital processing, such as by computers or more specialized digital signal processors, to perform a wide variety of signal processing operations. The digital signals processed in this manner are a sequence of numbers that represent samples of a continuous variable in a domain such as time, space, or frequency. In digital electronics, a digital signal is represented as a pulse train, which is typically generated by the switching of a transistor. Digital si

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~~Practical Digital Signal Processing by Edmund Lai — Books ...~~

Digital Signal Processing Digital Signal Processing or DSP is a name given to the method of converting data obtained from sensors to specific information we can use. DSP is inherently a very mathematics intensive field of study.

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