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**Integrity: From**

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years has seen a  
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areas of  
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Signal growth is expected well into the next millennium.

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point of view  
with a working  
minimum of  
mathematics. The  
emphasis is  
placed on the  
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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

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matter further.

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This successful

textbook covers

most aspects of

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many other

texts, it also  
covers a number  
of DSP

techniques which  
are of

particular  
relevance to  
industry such as  
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The goal is to

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of this popular text continues to provide practical

coverage of the fundamentals of digital signal processing (DSP) using real-world applications and practical

examples to illustrate key topics. Bridging

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the gap between theory and practice, the text also

provides insight and guidance on how to use DSP techniques in order to design real engineering systems.

~~Digital Signal Processing: A~~

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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



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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.

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processing is

the use of

digital

processing, such

as by computers

or more

specialized



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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

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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

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transistor.

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Processing or

DSP is a name

given to the

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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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