

# [PDF] Digital Signal Processing: A Practical Guide For Engineers And Scientists

Steven Smith - pdf download free book

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## Books Details:

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## Description:

**Book Description** Will help design engineers on the job master the tough but essential subject of digital signal processing.

**From the Back Cover** \*Covers all major DSP topics

\*Full of insider information and shortcuts

\*Basic techniques and algorithms explained without complex numbers

Written by a working scientist/engineer who has used DSP in his inventions and designs, Digital Signal Processing will help design engineers on the job trying to master a tough subject that is now regarded as an essential engineering skill and put it to use.

This immensely practical and thorough book has been written for engineers and scientists in a wide variety of fields, with the goal of explaining DSP techniques while avoiding the barriers of abstract theory and detailed mathematics, enabling readers to put the powerful tools of DSP to work in their research and designs. All techniques are explained through analogies, not simply proven to be true through mathematical derivations. The math is included where it is needed, but it is not used as the primary means of conveying the information. The illustrations are profuse and help to support the text in creative ways. Numerous detailed applications examples from many fields bring the theory to life. The coverage is thorough, detailed, and enlightening. The accompanying companion website gives access to all the computer code from the 40+ programs used in the applications examples, along with DSP software tools and info from various DSP manufacturers.

In addition to its thorough coverage of DSP design and programming techniques, Smith also covers the operation and usage of DSP chips. He uses Analog Devices' popular DSP chip family as design examples. Also included on the companion website is technical info on DSP processors from the four major manufacturers (Analog Devices, Texas Instruments, Motorola, and Lucent) and other DSP software.

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