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Disclaimer:

This pathfinder contains suggested materials on Digital Signal Processing that are available at the College of Engineering Library II. However, some references were not included.

We welcome suggestions for new pathfinder topics.

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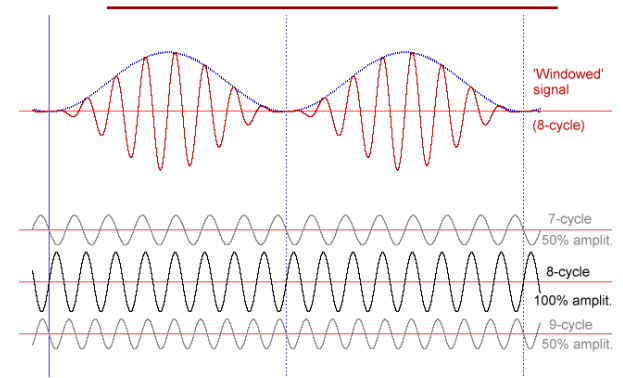


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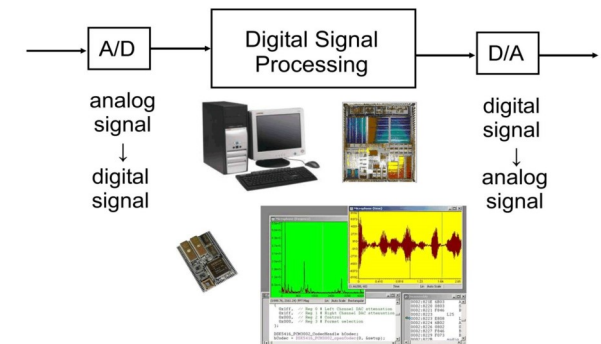


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DIGITAL SIGNAL PROCESSING



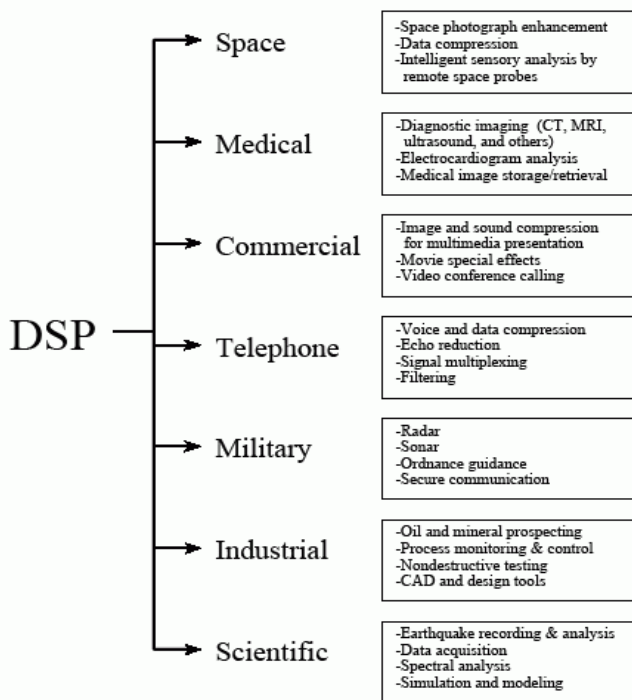
What is Digital Signal Processing?*

The world of science and engineering is filled with signals: images from remote space probes, voltages generated by the heart and brain, radar and sonar echoes, seismic vibrations, and countless other applications.

Digital Signal Processing

- is the science of using computers to understand these types of data. This includes a wide variety of goals: filtering, speech recognition, image enhancement, data compression, neural networks, and much more. DSP is one of the most powerful technologies that will shape science and engineering in the 21st century.

*Source: Smith, Steven. The Scientist and Engineer's Guide to Digital Signal Processing. (<http://www.dspguide.com/whatsp.htm> ; Image URL: <http://www.dspguide.com/ch1/1.htm>)



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FIGURE 1-1
DSP has revolutionized many areas in science and engineering. A few of these diverse applications are shown here.