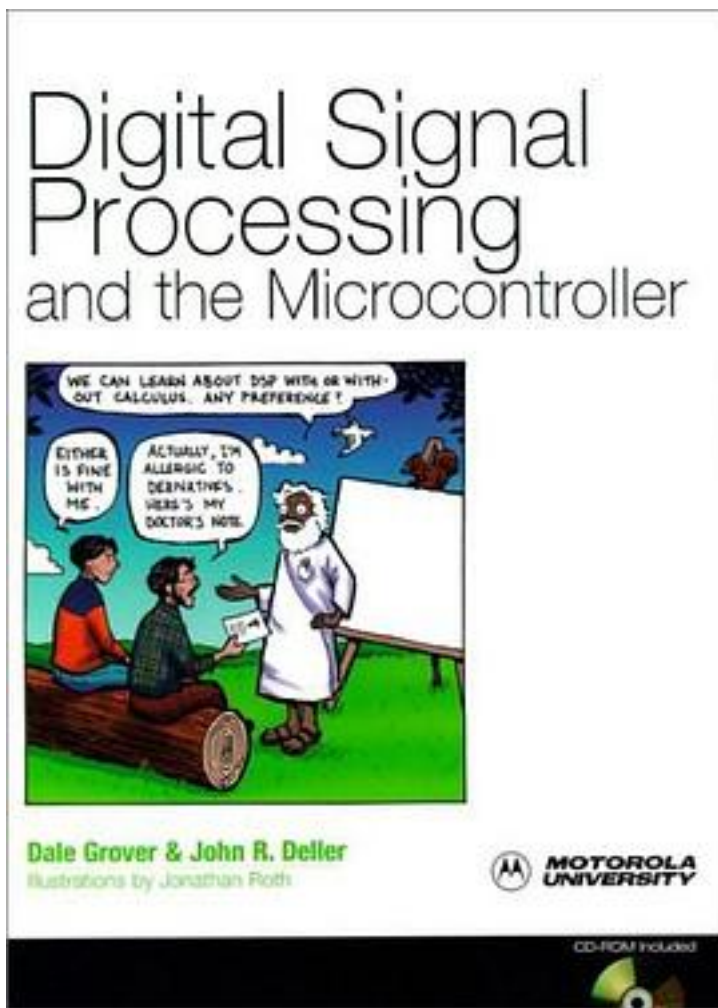# Digital Signal Processing and the Microcontroller

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著者:Grover, Dale; Deller, John R.; Roth, Jonathan

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Digital signal processing (DSP) is often treated as a complicated, theoretical subject.

This book takes a friendly, informal approach, stressing the practical information needed to not just understand, but use DSP on real hardware, including microcontrollers. It is aimed at readers who might not have an background in signal processing, and it does not assume mathematics beyond algebra and trigonometry. Topics include digital filters, the Fast Fourier Transform (FFT), and generating special signals and functions. Familiarity with programming microprocessors is assumed. The Motorola MC68HC16 is used as an example of a microcontroller with DSP-specific features, and complete assembly language programs show how DSP is implemented on a real processor. Numerous cartoon illustrations by Jonathan Roth.

作者介绍:

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标签

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