



Discrete-Signal Analysis and Design

William E. Sabin

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A clear, step-by-step approach to practical uses of discrete-signal analysis and design, especially for communications and radio engineers

This book provides an introduction to discrete-time and discrete-frequency signal processing, which is rapidly becoming an important, modern way to design and analyze electronics projects of all kinds. It presents discrete-signal processing concepts from the perspective of an experienced electronics or radio engineer, which is especially meaningful for practicing engineers, technicians, and students. The approach is almost entirely mathematical, but at a level that is suitable for undergraduate curriculums and also for independent, at-home study using a personal computer.

Coverage includes:

- First principles, including the Discrete Fourier Transform (DFT)
- Sine, cosine, and theta
- Spectral leakage and aliasing
- Smoothing and windowing
- Multiplication and convolution
- Probability and correlation
- Power spectrum
- Hilbert transform

The accompanying CD-ROM includes Mathcad® v.14 Academic Edition, which is reproduced with permission and has no time limitation for use, providing users with a sophisticated and world-famous tool for a wide range of applied mathematics capabilities.

Discrete-Signal Analysis and Design is written in an easy-to-follow, conversational style and supplies readers with a solid foundation for more advanced literature and software. It employs occasional re-examination and reinforcement of particularly important concepts, and each chapter contains self-study examples and full-page Mathcad® Worksheets, worked-out and fully explained.

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