



Discrete Systems and Digital Signal Processing with MATLAB, Second Edition

Taan S. ElAli

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"Discrete linear systems and digital signal processing have been treated for years in separate publications. ElAli has skillfully combined these two subjects into a single and very useful volume. ... Useful for electrical and computer engineering students and working professionals... a nice addition to the shelves of academic and public libraries.

"Summing Up: Highly Recommended."

? S.T. Karris, University of California, Berkeley in *CHOICE*

Typically, books on linear systems combine coverage of both discrete and continuous systems all in a single volume. The result is usually a daunting mountain of information that fails to sufficiently explain either subject. With this in mind, **Discrete Systems and Digital Signal Processing with MATLAB®, Second Edition** responds to the need in engineering for a text that provides complete, focused coverage of discrete linear systems and associated problem solution methods.

With its simplified presentation, this book follows a logical development that builds on basic mathematical principles to cover both discrete linear systems and signal processing. The author covers all traditional topics and includes numerous examples that are solved analytically and, when applicable, numerically using the latest version of MATLAB®. In addition to the classical coverage, the author includes complete and stand-alone chapters on IIR and FIR filter design, block diagrams, state-space, and sampling and transformations, as well as a unique chapter on FFT and its many applications. The book also introduces many examples using the MATLAB data acquisition toolbox in different chapters.

Ideal either as a textbook for the required course in the electrical and computer engineering curriculum or as an updated refresher for seasoned engineers, this resource offers a wealth of examples, exercises, problems, and author insights.

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