



# Signals and Systems: A MATLAB® Integrated Approach

*Oktay Alkin*

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## Signals and Systems: A MATLAB® Integrated Approach Oktaý Alkin

Drawing on the author's 25+ years of teaching experience, **Signals and Systems: A MATLAB® Integrated Approach** presents a novel and comprehensive approach to understanding signals and systems theory. Many texts use MATLAB® as a computational tool, but Alkin's text employs MATLAB both computationally and pedagogically to provide interactive, visual reinforcement of the fundamentals, including the characteristics of signals, operations used on signals, time and frequency domain analyses of systems, continuous-time and discrete-time signals and systems, and more.

In addition to 350 traditional end-of-chapter problems and 287 solved examples, the book includes hands-on MATLAB modules consisting of:

- 101 solved MATLAB examples, working in tandem with the contents of the text itself
- 98 MATLAB homework problems (coordinated with the 350 traditional end-of-chapter problems)
- 93 GUI-based MATLAB demo programs that animate key figures and bring core concepts to life
- 23 MATLAB projects, more involved than the homework problems (used by instructors in building assignments)
- 11 sections of standalone MATLAB exercises that increase MATLAB proficiency and enforce good coding practices

Each module or application is linked to a specific segment of the text to ensure seamless integration between learning and doing. A solutions manual, all relevant MATLAB code, figures, presentation slides, and other ancillary materials are available on an author-supported website or with qualifying course adoption.

By involving students directly in the process of visualization, **Signals and Systems: A MATLAB® Integrated Approach** affords a more interactive?thus more effective?solution for a one- or two-semester course on signals and systems at the junior or senior level.

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