### FIFTH EDITION

# MATLAB®

An Introduction with Applications

**AMOS GILAT** 

WILEY

## **Matlab 5th Edition**

**S Ashworth** 

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presented including topics such as signal properties elementary signals system properties continuous time and discrete time

linear time invariant systems convolution continuous time and discrete time Fourier series the continuous time and discrete time Fourier transforms frequency spectra and the bilateral and unilateral Laplace and z transforms Applications of the theory are also explored including filtering equalization amplitude modulation sampling feedback control systems circuit analysis Laplace domain techniques for solving differential equations and z domain techniques for solving difference equations Other supplemental material is also included such as a detailed introduction to MATLAB a review of complex analysis an introduction to partial fraction expansions an exploration of time domain techniques for solving differential equations and information on online video lecture content for material covered in the book Throughout the book many worked through examples are provided Problem sets are also provided for each major topic covered

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