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Nota di contenuto	Front Cover -- Back Cover -- Title Page -- Copyright Page -- Preface -- Table of Contents -- Chapter 01 - Elementary Signals -- Chapter 02 - The Laplace Transformation -- Chapter 03 - The Inverse Laplace Transformation -- Chapter 04 - Circuit Analysis with Laplace Trnasforms -- Chapter 05 - State Variables and State Equations -- Chapter 07 - Fourier Series -- Chapter 08 - The Fourier Transform -- Chapter 09 - Discrete-Time Systems and the Z-Transform -- Chapter 10 - The DFT and the FFT Algorithm -- Chapter 11 - Analog and Digital Filters -- Appendix A - Introduction to MATLAB -- Appendix B - Introduction to Simulink -- Appendix C - Review of Complex Numbers -- Appendix D - Matrices and Determinants -- Appendix E - Window Functions -- References -- Index.
Sommario/riassunto	This text contains a comprehensive discussion on continuous and discrete time signals and systems with many MATLAB® examples. Contents: Elementary Signals, Laplace transformation and its Inverse, Circuit Analysis with the Laplace transformation, State-Space, Impulse Response and Convolution, Fourier Series and Transform, Discrete-Time Signals and the Z transform, Discrete Fourier Transform and FFT, Design of Analog and Digital Filters and Window Functions.