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Autore	Phillips Charles L
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Nota di contenuto	Cover -- Table of Contents -- Chapter 1. Introduction -- Chapter 2. Continuous-Time Signals and Systems -- Chapter 3. Continuous-Time Linear Time-Invariant Systems -- Chapter 4. Fourier Series -- Chapter 5. The Fourier Transform -- Chapter 6. Applications of the Fourier Transform -- Chapter 7. The Laplace Transform -- Chapter 8. State Variables for Continuous-Time Systems -- Chapter 9. Discrete-Time Signals and Systems -- Chapter 10. Discrete-Time Linear Time-Invariant Systems -- Chapter 11. The z-Transform -- Chapter 12. Fourier Transforms of Discrete-Time Signals -- Chapter 13. State Variables for Discrete-Time Systems -- Appendix E. Solutions of Differential Equations -- Appendix F. Partial-Fraction Expansions -- Appendix G. Review of Matrices -- Appendix H. Answers to Selected Problems -- Appendix I. Signals and System References -- Index -- 3.
Sommario/riassunto	For sophomore/junior-level signals and systems courses in Electrical and Computer Engineering departments. This text provides a clear, comprehensive presentation of both the theory and applications in signals, systems, and transforms. It presents the mathematical background of signals and systems, including the Fourier transform, the Fourier series, the Laplace transform, the discrete-time and the discrete Fourier transforms, and the z-transform. The text integrates MATLAB examples into the presentation of signal and system theory and applications.