

Essentials of Electrical and Computer Engineering

J. David Irwin | David V. Kerns, Jr.



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Transforms Laplace and z transforms emphasizing their relationships and motivations The continuous and discrete time domains are neatly connected and the students are shown step by step how to use the fft function using simple examples Incorporating learning objectives and problems and supported with simple Matlab codes to illustrate concepts the text presents to students the foundations to allow the reader to pursue more advanced topics in later courses Developed from lecture notes already tested with more than 600 students over six years Essentials of Signals and Systems covers sample topics such as Basic concepts of linear algebra that are pertinent to signals and systems Theory of representation of signals with an emphasis on the notion of Fourier transforms as a change of basis and on their physical meaning Theory of representation of linear and time invariant systems emphasizing the role of Fourier transforms as a change to the basis of eigenvectors and the physical meaning of the impulse and frequency responses What signals and systems have to do with phasors and impedances and the basics of filter design The Laplace transform as an extension of Fourier transforms Discrete signals and systems the sampling theorem the Discrete Time Fourier Transform DTFT the Discrete Fourier Transform DFT and how to use the fast fourier transform fft The z transform as an extension of the Discrete Time Fourier Transform Essentials of Signals and Systems is an immensely helpful textbook on the subject for undergraduate students of electrical and computer engineering The information contained within is also pertinent to those in physics and related fields involved in the understanding of signals and system processing including those working on related practical applications

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