

EL 310 - Signals and Systems

3 Credit Hours

Introduces the general concept of linear time-invariant (LTI) systems and mathematical model of signals, time domain analysis (convolution). Also covers major mathematical tools for frequency domain system analysis: Fourier Transform and Laplace Transform. As the continuation of Signals and Systems I, introduces the mathematical tools of Z-transform and discrete time Fourier transform (DTFT), discrete mathematical model of signals, and the discrete version of convolution theorem. Also includes signal flow diagram analysis.

Prerequisites

[EL 215](#)