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**Signals Systems: Alan Oppenheim, Alan S. Willsky, S.Hamid ...**  
**Fundamentals of Signals and Systems (Electrical and ...**  
**Signals And Systems For Computer**

6.003 covers the fundamentals of signal and system analysis, focusing on representations of discrete-time and continuous-time signals (singularity functions, complex exponentials and geometrics, Fourier representations, Laplace and Z transforms, sampling) and representations of linear, time-invariant systems (difference and differential equations, block diagrams, system functions, poles and ...

**Signals and Systems | Electrical Engineering and Computer ...**

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This course covers signals, systems and inference in communication, control and signal processing. Topics include input-output and state-space models of linear systems driven by deterministic and random signals; time- and transform-domain representations in discrete and continuous time; and group delay. State feedback and observers.

**Signals, Systems and Inference | Electrical Engineering ...**

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More seriously, signals are functions of time (continuous-time signals) or sequences in time (discrete-time signals) that presumably represent quantities of interest. Systems are operators that accept a given signal (the input signal) and produce a new signal (the output signal). Of course, this is an abstraction of the processing of a signal.

**Notes for Signals and Systems**

The lectures, recitations, and homework in 6.011 will expand on signals, systems and probabilistic models. We will also explore prototype problems and applications from communication, control and signal processing. The topics will involve aspects of analysis, synthesis and optimization, for both continuous-time (CT) and discrete-time (DT) systems.

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