

EE539: Analog Integrated Circuit Design; Lecture 1

Nagendra Krishnapura (nagendra@iitm.ac.in)

2 Jan. 2006

Signals-Classification

Amplitude/Time	Continuous	Discrete
Continuous	Analog	Sampled Data
Discrete	Quantised Analog	Digital Signal

Analog Vs Digital

- All naturally occurring signals are analog in nature
- Digital signals have the advantage that they can be stored easily, can be conveniently processed using DSP and they offer programmability of processing

Examples:

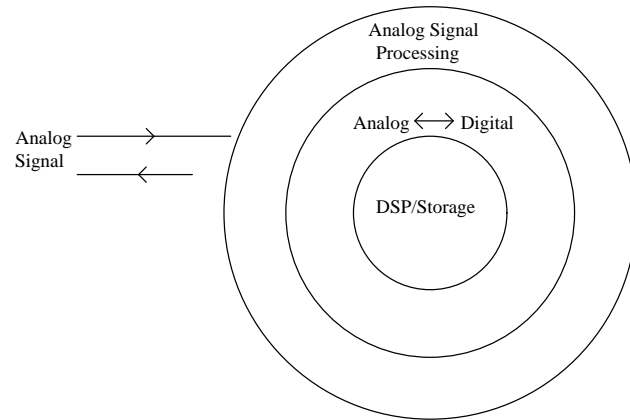


Figure 1: Signal Flow Diagram

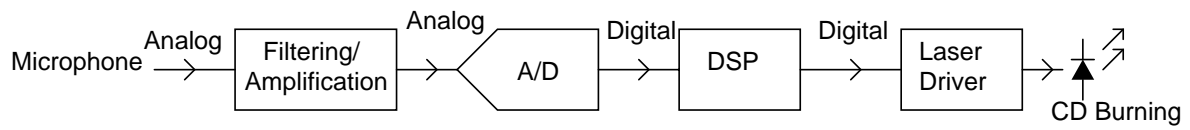


Figure 2: CD Recording

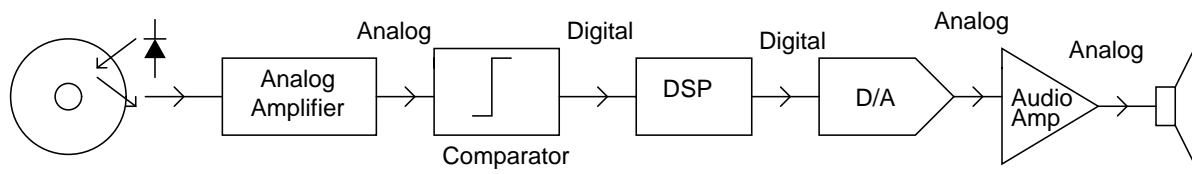


Figure 3: CD Playing