Processing & Analysis of Speech

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- Processing of Speech
  - ✓ Acquisition of speech signal
  - ✓ Digitization of speech
  - ✓ Concept of LTI system & It's response
  - ✓ Convolution & Correlation
  - ✓ Frequency-Domain representation of speech
    - ➢ DFT Relations & Graphical Interpretation
  - ✓ Various representations of system
    - ➢ Poles & Zeros of the system

- Analysis of Speech
  - ✓ Time-Domain Analysis
  - ✓ Frequency-Domain Analysis
  - ✓ Liner Predictive Coding Analysis
  - ✓ Cepstral Analysis
  - ✓ Sinusoidal Analysis
  - ✓ HNM Analysis
  - ✓ Group-Delay Analysis

Processing of Speech

Acquisition of Speech

Acoustic Pressure variations

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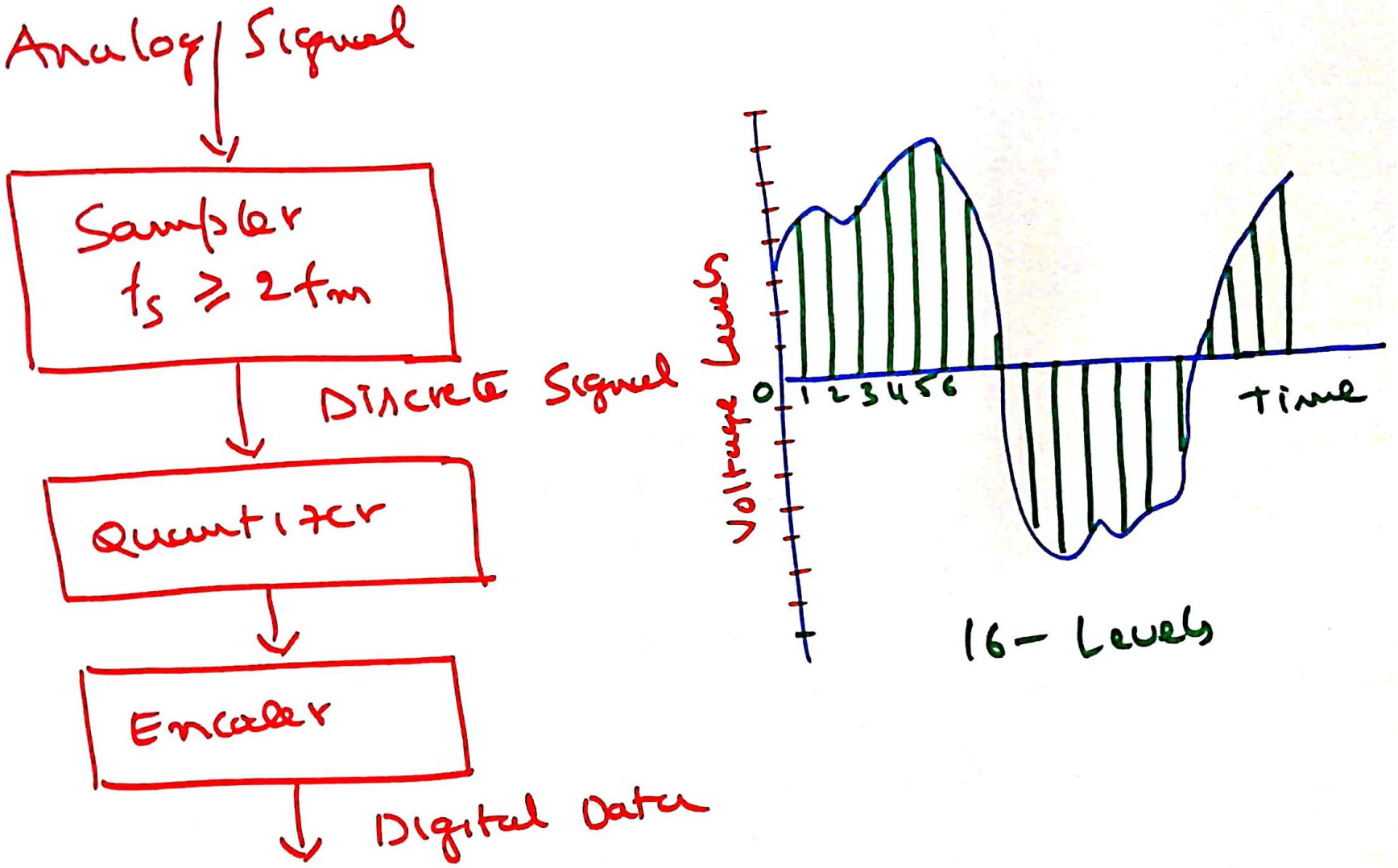
Voltage / Current variations (Analog)

Digitization of Speech



Unit Sample & Representation of Discrete Signal