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Defincion Sampling Tipos

ADC SAI

Esquematio C-Hold

Conversion ADC

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Universidad Nacional de Colombia

2023



Agenda

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ADC

¿Qué e

Sampli

Sampi

V vc

V vs

ADC SAR

C-Hold

1 ADC

- ¿Qué es?
- Definciones
- Sampling
- Tipos
- \blacksquare V vs R

2 ADC SAR

- Esquematico
- C-Hold
- Vref

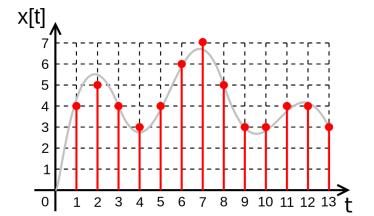


¿Analog to Digital Converter (ADC)?

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¿Qué es?

"is a system that converts an analog signal, such as a sound picked up by a microphone or light entering a digital camera, into a digital signal."





Algunas definiciones importantes

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¿Qué es?

Definciones

Sampling

Tipos V vs R

ADC SAF Esquematico C-Hold The process of analog-to-digital conversion produces a digital signal.

The conversion process can be thought of as occurring in two steps:

- sampling, which produces a continuous-valued discrete-time signal, and
- quantization, which replaces each sample value by an approximation selected from a given discrete set (for example by truncating or rounding).

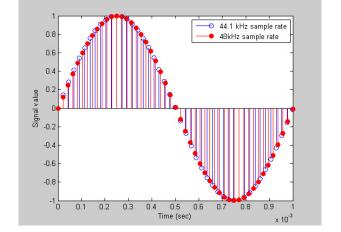


Veloidad o Frecuecnia de Muestreo

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Sampling





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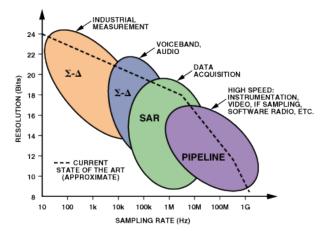
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¿Qué es? Defincion Sampling Tipos

ADC SAR

Esquemati C-Hold

Tipos de ADC





Velocidad vs Resolución

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¿Qué e

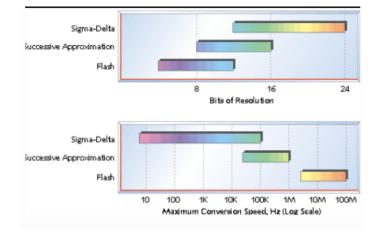
Defincio Samplini

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V vs R

ADC SA

C-Hold



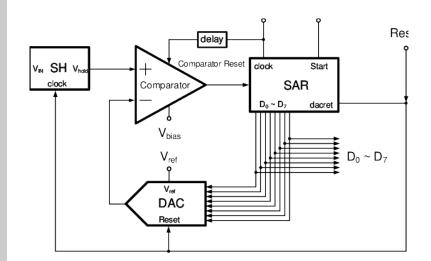


Esquematico de un ADC tipo SAR

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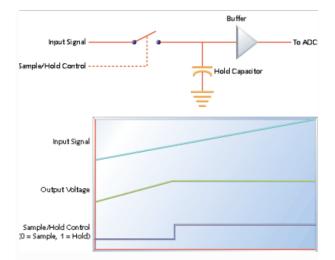
¿Qué es? Defincion Sampling Tipos

ADC SA

Esquemati

C-Hold

Holding and Sampling





Cómo nos afecta Vref

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1 D.C

ADC (Qué es

Defincio

Tipos

V vs F

ADC SAR

Esquemati

C-Hold Vref

