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Patent Search

Invention Title	A NEW SOFTWARE BASED ALGORITHM IMPLEMENTATION FOR DYNAMIC TESTING OF ANALOG TO DIGITAL CONVERTER (ADC) USING HISTOGRAM TECHNIQUE WITH SINE WAVE, TRIANGULAR WAVE AND APPLICATION MODE AS INPUT SIGNALS.
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Abstract:

A NEW SOFTWARE BASED ALGORITHM IMPLEMENTATION FOR DYNAMIC TESTING OF ANALOG TO DIGITAL CONVERTER (ADC) USING HISTOGRAM TECHNIQUE WITH SINE WAVE AND TRIANGULAR WAVE AND APPLICATION MODE AS INPUT SIGNALS. ABSTRACT: ADC is an important device widely used in electronics, communication and instrumentation systems like biomedical signal processing, military applications for interfacing Analog devices with digital devices. All the existing testing methods are sophisticated, costly and time consuming, every person cannot afford. It is a dream of every young researcher and designer that if the method tests the devices and determines the design parameters like Offset error, Differential nonlinearity (DNL), Integral nonlinearity (INL), Effective Number of Bits (ENOB) etc [1-3]. In case of high volume production of Integrated Circuits (ICs), manufacturing costs are strongly affected by testing costs. Hence ADC design and testing is an important activity which plays a main role in deciding the accuracy of a system. Here we have proposed a software-based novel testing algorithm implementation for dynamic testing of analog-to-digital converter (ADC) using Histogram test technique with sine wave, triangular wave and application mode as input signal for high-speed data converting applications. This proposed algorithm is time-saving, error-correcting and user-friendly.

Complete Specification

FORM 2
THE PATENTS ACT 1970
39 OF 1970
&
THE PATENT RULES 2003
COMPLETE SPECIFICATION
(SEE SECTIONS 10 & RULE 13)

1. TITLE OF THE INVENTION

A NEW SOFTWARE BASED ALGORITHM IMPLEMENTATION FOR
DYNAMIC TESTING OF ANALOG TO DIGITAL CONVERTER (ADC) USING
HISTOGRAM TECHNIQUE WITH SINE WAVE, TRIANGULAR WAVE AND
APPLICATION MODE AS INPUT SIGNALS.

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