

## عنوان مقاله:

MOCA ARM: Analog Reliability Measurement based on Monte Carlo Analysis

محل انتشار:

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**نویسندگان:** Shiva Taghipour - Department of Electrical Engineering, University of Guilan, Rasht, Iran

Rahebeh Niaraki Asli - Department of Electrical Engineering, University of Guilan, Rasht, Iran

## خلاصه مقاله:

Due to the expected increase of defects in circuits based on deep submicron technologies, reliability has become an important design criterion. Although different approaches have been developed to estimatereliability in digital circuits and some measuring concepts have been separately presented to reveal the quality of analog circuit reliability in the literature, there is a gap to estimate reliability when circuit includesanalog and digital structures. In this paper, we propose a new classification method using Monte Carlo analysis to calculate the reliability of analog circuits and show its efficacy when it is used for acombination of analog and digital circuits. Our method is based on signal reliability measurements the probability of passing correct or faulty values. Furthermore, we compare our reliability measurements show the reliability measurement presented here which provides key information forreliability ...

## کلمات کلیدی:

Analog reliability measurement, Deep sub-micron technologies, Failure mechanisms, Monte Carlo analysis, Mean time to failure

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