

عنوان مقاله:

A New Technique for Background Calibration of Pipelined ADCs

محل انتشار:

بيستُ و يكمين كنفرانس مهندسي برق ايران (سال: 1392)

تعداد صفحات اصل مقاله: 5

نویسندگان:

Meysam Mohammadi - Sahand University of Technology, Tabriz, Iran

Amir Alipour Esmaeil N. Aghdam Khosrov D. Sadeghipour

خلاصه مقاله:

This paper presents a new background calibration technique for pipelined ADCs by means of slow high accurate ADC (SHADC). Errors due to finite andnonlinear gain of inter-stage operational amplifier are calibrated. Correction coefficients are estimated by using the well-known LMS algorithm. Obtained results fromsimulation of a 13bit 1.5bit/stage pipelined ADC behavioral model reveals the effectiveness of the proposed technique tocalibrate the mentioned errors. The ADC achieves a DNL of -0.8 LSB from -47.03 LSB, an INL of 2.84 LSB from 66.48 LSB and SNDR of 73.55 dB from 40.64 dB after calibration

کلمات کلیدی: pipelined ADC; background calibration; LMS algorithm

لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/208832

