

DOI: <https://doi.org/10.15407/techned2016.06.063>

INTEGRAL NONLINEARITY OF SECOND-ORDER SINGLE-BIT SIGMA-DELTA MODULATOR

Journal	Tekhnichna elektrodynamika
Publisher	Institute of Electrodynamics National Academy of Science of Ukraine
ISSN	1607-7970 (print), 2218-1903 (online)
Issue	№ 6, 2016 (November/December)
Pages	63 – 68

Authors

Sun Haimeng¹, R. Kochan², O. Kochan², Su Jun³

¹ – Jimei University Chengyi College, 185 Yinjiang Road, 361021, XiaMen, China

² – Lviv Polytechnic National University,
12 Bandera str., Lviv, 79013, Ukraine,
e-mail: kochan.roman@gmail.com

³ – Hubei University of Technology,
Wuhan, 430068, China

Abstract

The simulation model of single-bit second-order sigma-delta modulator and analog-to-digital converter (ADC) based on this modulator is developed. The study of influence of all components parameters on integral nonlinearity of ADC is carried out by the model. As revealed, there are no influence of second integrator nonlinearity on ADC nonlinearity. References 16, figures 9, table 1.

Key words: sigma-Delta Modulator, Integral Nonlinearity, Error Correction.

Received: 05.02.2016

Accepted: 15.09.2016

Published: 27.10.2016

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