

Methodology For The Digital Calibration Of Analog Circuits And Systems

[DOWNLOAD HERE](#)

List of Figures. List of Tables. - 1 Introduction. 1.1 Context. 1.2 Objectives. 1.3 Compensation methodology. 1.4 Applications of the compensation methodology. 1.5 Book organization. - 2 Autocalibration and compensation techniques. 2.1 Introduction. 2.2 Matching. 2.3 Chopper stabilization. 2.4 Autozero. 2.5 Correlated double sampling. 2.6 Ping-pong. 2.7 Other techniques. 2.8 Classification. 2.9 Conclusion. - 3 Digital compensation circuits and sub-binary digital-to-analog converters. 3.1 Introduction. 3.2 Digital compensation. 3.3 Successive approximations. 3.4 Sub-binary radix DACs. 3.5 Component arrays. 3.6 Current sources. 3.7 R/2R ladders. 3.8 Linear current division using MOS transistors. 3.9 M/2M ladders. 3.10 R/xR ladders. 3.11 M/2+M ladders. 3.12 Comparison. 3.13 Linear DACs based on M/2+M converters. 3.14 Conclusion. - 4 Methodology for current-mode digital compensation of analog circuits. 4.1 Introduction. 4.2 Two-stage Miller operational amplifier. 4.3 Compensation current technique. 4.4 Simulation with digital compensation circuits. 4.5 Application to SOI 1T DRAM calibration. 4.6 Conclusion. - 5 Hall microsystem with continuous digital gain calibration. 5.1 Introduction. 5.2 Integrated Hall sensors. 5.3 Spinning current technique. 5.4 Sensitivity calibration of Hall sensors. 5.5 Hall sensor microsystems. 5.6 Continuous digital gain calibration technique. 5.7 Conclusion. - 6 Implementation of the Hall microsystem with continuous calibration. 6.1 Introduction. 6.2 Hall sensor array. 6.3 Preamplifier. 6.4 Demodulators. 6.5 Delta-sigma modulator. 6.6 System improvements. 6.7 System integration. 6.8 Conclusion. - 7 Conclusion. 7.1 Highlights. 7.2 Main contributions. 7.3 Perspectives. - References. - Index. EAN/ISBN : 9781402042539 Publisher(s): Springer Netherlands Discussed keywords: Analoagschaltung, Analoagsystem Format: ePub/PDF Author(s): Pastre, Marc - Kayal, Maher

[DOWNLOAD HERE](#)

Similar manuals: