

Nanometer CMOS sigma-delta modulators for software defined radio

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Deskripsi Lengkap: <https://lib.ui.ac.id/detail?id=20410801&lokasi=lokal>

Abstrak

This book presents innovative solutions for the implementation of Sigma-Delta Modulation (SDM) based Analog-to-Digital Conversion (ADC), required for the next generation of wireless hand-held terminals. These devices will be based on the so-called multi-standard transceiver chipsets, integrated in nanometer CMOS technologies. One of the most challenging and critical parts in such transceivers is the analog-digital interface, because of the assorted signal bandwidths and dynamic ranges that can be required to handle the A/D conversion for several operation modes.