

Abstracts

Delta-sigma data conversion in wireless transceivers

I. Galton. "Delta-sigma data conversion in wireless transceivers." 2002 Transactions on Microwave Theory and Techniques 50.1 (Jan. 2002, Part II [T-MTT] (Special Issue on Silicon-Based RF and Microwave Integrated Circuits)): 302-315.

High-performance analog-to-digital converters, digital-to-analog converters, and fractional-N frequency synthesizers based on delta-sigma ($\Delta\Sigma$) modulation - collectively referred to as $\Delta\Sigma$ data converters have contributed significantly to the high level of integration seen in recent commercial wireless handset transceivers. This paper presents a tutorial on $\Delta\Sigma$ data converters and their uses and implications with respect to wireless transceiver architectures.

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