Record Nr. Autore	UNINA9910783114703321 Geerts Yves
Titolo	Design of multi-bit delta-sigma A/D converters
Pubbl/distr/stampa	Boston, MA : , : Springer US, , 2002
ISBN	0-306-48015-8
Descrizione fisica	1 online resource (X, 226 p.)
Collana	SECS Design of multi-bit delta-sigma A/D converters
Disciplina	621.39/814
Soggetti	Analog-to-digital converters - Design and construction Metal oxide semiconductors, Complementary - Design and construction Broadband communication systems - Equipment and supplies - Design and construction Very high speed integrated circuits - Design and construction Electrical & Computer Engineering Engineering & Applied Sciences Electrical Engineering
Lingua di pubblicazione	Inglese
Lingua di pubblicazione Formato	Materiale a stampa
Formato	Materiale a stampa
Formato Livello bibliografico	Materiale a stampa Monografia

1.

problem of the DA converter in the feedback loop of converters. Several circuit design aspects of multi-bit Delta-Sigma converters are discussed. Various models are provided for a wide range of linear and non-linear circuit imperfections, which can degrade the performance of the converter. These models allow the designer to determine the required specifications for the different building blocks and form the basis of a systematic design procedure. The presented material is combined in a concluding chapter, which illustrates the systematic design procedure for two high-performance converters. Design of Multi-Bit Delta-Sigma A/D Converters provides a clear comparison of architectures and yields insight into the influence of the most important circuit non-idealities. It will allow you to design robust and high-performance Delta-Sigma AD converters in a shorter time. It is essential reading for analog design engineers and researchers in the field of AD converters and it is also suitable as a text for an advanced course on the subject.