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Titolo	Design of multi-bit delta-sigma A/D converters
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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 Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
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Nota di contenuto	Architecture Study of Delta-Sigma Converters -- Design Considerations for Multi-Bit ?? Converters -- Implementations -- Conclusions.
Sommario/riassunto	Design of Multi-Bit Delta-Sigma A/D Converters discusses both architecture and circuit design aspects of Delta-Sigma A/D converters, with a special focus on multi-bit implementations. The emphasis is on high-speed high-resolution converters in CMOS for ADSL applications, although the material can also be applied for other specification goals and technologies. Design of Multi-Bit Delta-Sigma A/D Converters starts with a general introduction of the concepts of Delta-Sigma converters. A wide variety of architectures are discussed, ranging from single-loop to cascaded and various multi-bit topologies. These topologies are optimized to obtain stable converters with a high accuracy. A clear overview is provided of the maximum achievable performance of each topology, which allows a designer to select the optimal architecture for a certain specification. Special attention is paid

to multi-bit architectures and possible solutions for the linearity 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.

2. Record Nr.	UNINA9910463331303321
Autore	Bjorkman Beyza
Titolo	English as an academic lingua franca [[electronic resource]] : an investigation of form and communicative effectiveness / / by Beyza Bjorkman
Pubbl/distr/stampa	Boston, : De Gruyter Mouton, 2013
ISBN	3-11-027954-1
Descrizione fisica	1 online resource (278 p.)
Collana	Developments in English as a lingua franca, , 2192-8177 ; ; 3
Disciplina	420.71
Soggetti	English language - Variation - Foreign countries English language - Variation - English-speaking countries Intercultural communication English language - Globalization Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.

Nota di contenuto

Front matter -- Acknowledgments -- Contents -- Abbreviations -- Chapter 1: Introduction -- Chapter 2: Previous research on ELF -- Chapter 3: Exploring an academic ELF setting in Sweden: The site -- Chapter 4: Operating in a Swedish ELF site -- Chapter 5: Theoretical and practical implications -- Chapter 6: Looking ahead -- Appendices -- References -- Index

Sommario/riassunto

Open publication As a result of globalization, higher education institutions throughout the world are adopting English for parts of their education. Higher education is becoming increasingly international and thus linguistically diverse, for educational, idealistic and financial reasons. This book presents a much-needed description of English as a lingua franca (ELF) from an international university setting and focuses on form and pragmatic issues, using authentic spoken data. It provides useful insights into how communicative effectiveness can be achieved in spoken lingua franca communication