

图书基本信息

书名：<< A/D转换技术在信号调理中的应用 >>

13位ISBN编号：9787030182487

10位ISBN编号：7030182480

出版时间：2006-12

出版时间：科学出版社

作者：菲利普

版权说明：本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问：<http://www.tushu007.com>

内容概要

本书讲述了连续时间 模数转换器在无线通信中的应用, 尤其重点讲述了 模数转换器数字化无线通信信道的优点, 从能耗的角度分析了 模数转换器在信号调理中的应用。提出把部分的信号调理集成到 A / D转换器中的方法, 本方法改善了整个信道的功耗和性能的平衡。

本书给出了采用这种方法的两个实例, 包括电路图、模拟和测试结果, 也对基于 调节的信道和通常解决方法做了比较, 采用了理论和实践结合的方法对所提出的方法进行了阐述。

书籍目录

List of symbols and abbreviations 1 Introduction 1.1 Background 1.2 Scope 1.3 Outline 2 The signal conditioning channel 2.1 Generic communication channel 2.2 Performance parameters 2.3 Conventional conditioning channels 2.4 Evolution 2.5 Nomenclature 2.6 Conclusions 3 A/D conversion 3.1 Historical overview 3.2 State-of-the-art in A/D conversion 3.3 A/DCs in future conditioning channels 3.4 Limitations of A/D conversion 3.5 Conclusions 4 Power consumption in channel building blocks 4.1 Literature on power/performance analysis 4.2 Figures-of-merit 4.3 Power consumption in analog conditioning circuits 4.4 Power consumption in a ADC 4.5 Power consumption in digital conditioning circuits 4.6 Comparison 4.7 Conclusions 5 Full-analog and full-digital conditioning channels 5.1 Full-analog conditioning channel 5.2 Full-digital conditioning channel 5.3 Conclusions 6 Conditioning ADCs 6.1 Generic conditioning ADC 6.2 Signal conditioning in the decimation filter 6.3 Signal conditioning with a restricted filtering STF 6.4 Signal conditioning by unrestricted STF design 6.5 Comparison of conditioning ADCs 6.6 Conclusions 7 Digitization of the inter-die interface 8 Highly analog and highly digital channels for FM_/AM radio 9 Conditioning ADCs for Bluetooth 10 General conclusions A Overview of published ADCs B Power/performance relation of analog circuits C Power/performance relation of digital filters D Third-order distortion in analog circuits and ADCs E Power consumption in a data interface References

版权说明

本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问:<http://www.tushu007.com>