

# DATA CONVERTERS FOR WIRELESS STANDARDS

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# Data Converters For Wireless Standards

**Liyong Dong**



## **Data Converters For Wireless Standards:**

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High Data Rate Transmitter Circuits C.J. de Ranter, Michiel Steyaert, 2006-04-18 High Data Rate Transmitter Circuits is a practical guide and introduction to the design of key RF building blocks used in high data rate transmitters The emphasis lies on CMOS circuit techniques applicable to oscillators and upconvertors Furthermore a method for RF specific design automation is exemplified by the CYCLONE tool for automated LC VCO synthesis Written in an easily accessible manner High Data Rate Transmitter Circuits is essential reading for both students and practicing engineers interested in analog RF design and RF specific design automation The book has been praised for its pleasant and light style of writing without losing detail on the technical side

**CMOS Telecom Data Converters** Angel Rodríguez-Vázquez, Fernando Medeiro, Edmond Janssens, 2013-03-09 CMOS Telecom Data Converters compiles the latest achievements regarding the design of high speed and high resolution data converters in deep submicron CMOS technologies The four types of analog to digital converter architectures commonly found in this arena are covered namely sigma delta pipeline folding interpolating and flash For all these types latest achievements regarding the solution of critical architectural and circuitual issues are presented and illustrated through IC prototypes with measured state of the art performances Some of these prototypes are conceived to be employed at the chipset of newest generation wireline modems ADSL and ADSL Others are intended for wireless transceivers Besides analog to digital converters the book also covers other functions needed for communication systems such as digital to analog converters analog filters programmable gain amplifiers digital filters and line drivers

High Speed High SFDR Data Converter Design for Cellular Basestations Kavita S. Nair, 2004

**MATLAB** Vasilios Katsikis, 2012-09-26 This is the first book in a three volume series deploying MATLAB based applications in almost every branch of science This volume presents interesting topics from different areas of engineering signal and image processing based on the MATLAB environment The book consists of 20 excellent insightful articles and the readers will find the results very useful to their work This collection of high quality articles refers to a large range of professional fields and may be used for scientific engineering and educational purposes

**High-speed Delta-sigma Data Converters for Next-generation Wireless Communication** Sakkarapani Balagopal, 2014 In recent years Continuous time Delta Sigma CT delta sigma analog to digital converters ADCs have been extensively investigated for their use in wireless receivers to

achieve conversion bandwidths greater than 15 MHz and higher resolution of 10 to 14 bits This dissertation investigates the current state of the art high speed single bit and multi bit Continuous time Delta Sigma modulator CT delta sigma M designs and their limitations due to circuit non idealities in achieving the performance required for next generation wireless standards Also we presented complete architectural and circuit details of a high speed single bit and multi bit CT delta sigma M operating at a sampling rate of 1.25 GSps and 640 MSps respectively the highest reported sampling rate in a 0.13  $\mu\text{m}$  CMOS technology node with measurement results Further we propose novel hybrid delta sigma architecture with two step quantizer to alleviate the bandwidth and resolution bottlenecks associated with the contemporary CT delta sigma M topologies To facilitate the design with the proposed architecture a robust systematic design method is introduced to determine the loop filter coefficients by taking into account the non ideal integrator response such as the finite opamp gain and the presence of multiple parasitic poles and zeros Further comprehensive system level simulation is presented to analyze the effect of two step quantizer non idealities such as the offset and gain error in the sub ADCs and the current mismatch between the MSB and LSB elements in the feedback DAC The proposed novel architecture is demonstrated by designing a high speed wideband 4th order CT delta sigma modulator prototype employing a two step quantizer with 5 bits resolution The proposed modulator takes advantage of the combination of a high resolution two step quantization technique and an excess loop delay ELD compensation of more than one clock cycle to achieve lower power consumption 28 mW higher dynamic range 69 dB with a wide conversion bandwidth 20 MHz even at a lower sampling rate of 400 MHz The proposed modulator achieves a Figure of Merit FoM of 340 fJ level

Boise State University ScholarWorks *Software Defined Radio*  
Walter H.W. Tuttlebee, 2003-04-11 Software defined radio SDR is one of the most important topics of research and indeed development in the area of mobile and personal communications SDR is viewed as an enabler of global roaming and as a unique platform for the rapid introduction of new services into existing live networks It therefore promises mobile communication networks a major increase in flexibility and capability SDR brings together two key technologies of the last decade digital radio and downloadable software It encompasses not only reconfiguration of the air interface parameters of handset and basestation products but also the whole mobile network to facilitate the dynamic introduction of new functionality and mass customised applications to the user s terminal post purchase This edited book contributed by internationally respected researchers and industry practitioners describes the current technological status of radio frequency design data conversion reconfigurable signal processing hardware and software issues at all levels of the protocol stack and network The book provides a holistic treatment of SDR addressing the full breadth of relevant technologies radio frequency design signal processing and software at all levels As such it provides a solid grounding for a new generation of wireless engineers for whom radio design in future will assume dynamic flexibility as a given In particular it explores The unique demands of SDR upon the RF subsystem and their implications for front end design methodologies The recent concepts of the

digital front end and parametrization The role and key influence of data conversion technologies and devices within software radio essential to robust product design The evolution of signal processing technologies describing new architectural approaches Requirements and options for software download Advances in soft protocols and on the fly software reconfiguration Management of terminal reconfiguration and its network implications The concepts of the waveform description language The book also includes coverage of Potential breakthrough technologies such as superconducting RSFQ technology and the possible future role of MEMS in RF circuitry Competing approaches eg all software radios implemented on commodity computing vs advanced processing architectures that dynamically optimise their configuration to match the algorithm requirements at a point in time The book opens with an introductory chapter by Stephen Blust Chair of the ITU R WP8F Committee and Chair of the SDR Forum presenting a framework for SDR in terms of definitions evolutionary perspectives introductory timescales and regulation Suitable for today s engineers technical staff and researchers within the wireless industry the book will also appeal to marketing and commercial managers who need to understand the basics and potential of the technology for future product development Its balance of industrial and academic contributors also makes it suitable as a text for graduate and post graduate courses aiming to prepare the next generation of wireless engineers

Third Generation Mobile Telecommunication Systems Peter Stavroulakis,2001-03-12 One hundred years ago the notion of transmitting information without the use of wires must have seemed like magic In 1896 the first patent for wireless communication was granted to Marchese Guglielmo Marconi Since then the field of wireless communications which includes cellular systems has taken various forms of development It basically evolved through three Eras The Pioneer Era over the period of 1860 1921 the Precellular Era over 1921 1980 and the Cellular Era after 1980 and beyond The first generation cellular era started with the Analog Systems and evolved in the digital domain utilizing Time Division Multiple Access TDMA and Code Division Multiple Access CDMA thus comprising the Second Generation Mobile Systems The first generation RF cellular communications systems deployed in the early to mid 1980 s had air interfaces comprised of analog technology Among them were AMPS Advanced Mobile Phone System NMT Nordic Mobile Telephone and TACS Total Access Communications System These were designed for use in a specific geographic area and not intended to be deployed in other areas There was not much commonality beyond using the same air interface technology and same modulation The air interface technology was Frequency Division Multiple Access FDMA and the modulation was analog FM but with different deviations and channel spacings The frequency bands air interface protocols number of channels and data rates were different In general these systems provided local and national coverage *Sci-tech News* ,2002 EDN ,2009

*Electronic Engineering Design* ,2002 Alternative GSM Modulation Format Robert Wiest (M.S. in electrical engineering),1996 Books In Print 2004-2005 Ed Bowker Staff,Staff Bowker, Ed,2004 **Standard and Poor's 500 Guide** Standard & Poor's,Standard and Poor's Corporation,2004-12 Provides data and analysis of the companies in the world

famous S stock picks in various categories and company addresses and numbers along with names of top officers *High Speed, High Resolution and High SFDR Analog-to-digital Converter Architecture and Design* Frank Raymond Dropps, 2006  
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