

ANALOG INTEGRATED CIRCUITS AND SIGNAL PROCESSING

An International Journal

Volume 37, Number 3, December 2003

RF Integrated Circuits

Analysis and Optimization of Noise in Bipolar RF Harmonic Mixers	<i>Ahmed Helmy, Khaled Sharaf and Hani Ragai</i>	139
A Fast Macro-Model for Substrate Coupling and Ground Bounce Induced Substrate Noise Simulation in Mixed Signal VLSI	<i>S.M. Rezaul Hasan and Omid Shoaie</i>	149
Design, Optimization of RF Spiral Inductors Using Scalable Compact and Accurate Models	<i>See-Chuan Leong</i>	165

Data Converters

A Sub-1V Fourth-Order Bandpass Delta-Sigma Modulator	<i>Hsiang-Hui Chang, Chien-Hung Kuo, Ming-Huang Liu and Shen-luan Liu</i>	179
Stabilizing High Order Sigma Delta Modulators by Time Delay Feedback Technique	<i>Ahmet Uçar</i>	191
A Self-Calibrated Pipeline ADC with 200 MHz IF-Sampling Frontend	<i>Mikko Waltari, Lauri Sumanen, Tuomas Korhonen and Kari A. I. Halonen</i>	201
Circuit Design of an On-Chip Temperature-Compensated Constant Transconductance Reference	<i>Jiwei Chen Bingxue Shi</i>	215

Low-Voltage

A Low-Voltage Fully Differential MOSFET-C Bandpass-Based Voltage-Controlled Oscillator for Frequency Tuning	<i>Tsung-Sum Lee</i>	223
A New Low Voltage CMOS Transconductor for VHF Filtering Applications	<i>Luo Zhenying, M.F. Li, Yong Lian and S.C. Rustagi</i>	233

Information Processing

A CMOS Imager with On-Chip Temporal Filtering for Motion Pre-Processing	<i>Anand Gopalan and Reid R. Harrison</i>	243
---	---	-----

Mixed-Signal Processing

Low-Voltage Analog Circuits Based on Wideband Capacitive Coupling	<i>Jaime Ramírez-Angulo, Carlos Urquidi, Ramon G. Carvajal, Antonio Torralba and Antonio J. Lopez-Martin</i>	253
A New Inductor Series-Peaking Technique for Bandwidth Enhancement of CMOS Current-Mode Circuits	<i>Bendong Sun and Fei Yuan</i>	259
Very Low Voltage CMOS Current Multiplier with Floating DC Level Shifters	<i>Iñigo Navarro, Antonio J. López-Martín, Carlos A. De La Cruz-Blas and Alfonso Carlosena</i>	265
Very Low Voltage Rail-to-Rail Programmable-Gain CMOS Amplifier	<i>Jaime Ramírez-Angulo, Antonio J. López-Martín, Ramón G. Carvajal and Chad Lackey</i>	269
Low-Power Low-Voltage Class-AB Linear OTA for HF Filters with a Large Tuning Range	<i>J.A. Galán, R.G. Carvajal, F. Muñoz, A. Torralba and J. Ramírez-Angulo</i>	275