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Titolo	Efficient Sensor Interfaces, Advanced Amplifiers and Low Power RF Systems : Advances in Analog Circuit Design 2015 // edited by Kofi A. A. Makinwa, Andrea Baschiroto, Pieter Harpe
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Part 1.Efficient Sensor Interfaces -- Smart-DEM for Energy-Efficient Incremental ADCS -- Micro power Incremental Analog-to-Digital Converters -- Energy-Efficient CDCs for Millimeter Sensor Nodes -- A Micro-Power Temperature-to-Digital Converter for Use in a MEMS-Based 32kHz Oscillator -- Low-Power Biomedical Interfaces -- A Power-Efficient Compressive Sensing Platform for Cortical Implants -- Part 2. Advanced Amplifiers -- OpAmps, Gm-blocks or Inverters? -- Linearization Techniques for Push-Pull Amplifiers -- Ultra Low Power Low Voltage Capacitive Preamplifier for Audio Application -- Design and Technology for Very High-Voltage OpAmps -- Advances in Low-Offset OpAmps -- Amplifier Design for the Higgs Boson Search -- Part 3. Low-Power RF Systems -- PLL-Free, High Data Rate Capable Frequency Synthesizers -- Ultra Low Power Wireless SoC Design for Wearable BAN -- Towards Low Power N-Path Filters for Flexible RF-Channel Selection -- Efficiency Enhancement Techniques for RF and mm-Wave Power Amplifiers -- Energy-Efficient Phase-Domain RF Receivers for Internet-of-Things (IOT) Applications -- A Low-Power Versatile CMOS Transceiver for Automotive Applications.

This book is based on the 18 tutorials presented during the 24th workshop on Advances in Analog Circuit Design. Expert designers present readers with information about a variety of topics at the frontier of analog circuit design, including low-power and energy-efficient analog electronics, with specific contributions focusing on the design of efficient sensor interfaces and low-power RF systems. This book serves as a valuable reference to the state-of-the-art, for anyone involved in analog circuit research and development. · Provides a state-of-the-art reference in analog circuit design, written by experts from industry and academia; · Presents material in a tutorial-based format; · Includes coverage of high-performance analog-to-digital and digital to analog converters, integrated circuit design in scaled technologies, and time-domain signal processing.

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