

The River Publishers Series in Circuits and Systems

FM-UWB Transceivers for Autonomous Wireless Systems

Authors:

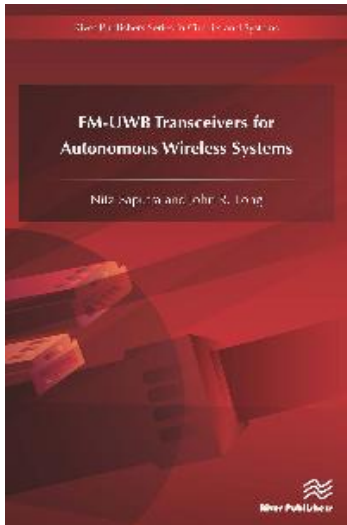
Nitz Saputra, Qualcomm Inc., USA

John R. Long, University of Waterloo, Canada

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Description:

Significant research effort has been devoted to the study and realization of autonomous wireless systems for wireless sensor and personal-area networking, the internet of things, and machine-to-machine communications. Low-power RF integrated circuits, an energy harvester and a power management circuit are fundamental elements of these systems.

An FM-UWB Transceiver for Autonomous Wireless Systems presents state-of-the-art developments in low-power FM-UWB transceiver realizations. The design, performance and implementation of prototype transceivers in CMOS technology are presented. A working hardware realization of an autonomous node that includes a prototype power management circuit is also proposed and detailed in this book.

Technical topics include:

- Low-complexity FM-UWB modulation schemes
- Low-power FM-UWB transceiver prototypes in CMOS technology
- CMOS on-chip digital calibration techniques
- Solar power harvester and power management in CMOS for low-power RF circuits

An FM-UWB Transceiver for Autonomous Wireless Systems is an ideal text and reference for engineers working in wireless communication industries, as well as academic staff and graduate students engaged in electrical engineering and communication systems research.

Contact River Publishers

Phone: +13-176899634, +31-(0)-6-46573673
Email: customercare@riverpublishers.com
www.riverpublishers.com

The Netherlands Office

Lange Geer 44,
2611 PW Delft
The Netherlands

Denmark Office

Alsbjergvej 10
9260 Gistrup
Denmark