



# Mobility-based Time References for Wireless Sensor Networks (Analog Circuits and Signal Processing)

*Fabio Sebastiano, Lucien J. Breems, Kofi A. A. Makinwa*

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## **Mobility-based Time References for Wireless Sensor Networks (Analog Circuits and Signal Processing)** Fabio Sebastiano, Lucien J. Breems, Kofi A. A. Makinwa

This book describes the use of low-power low-cost and extremely small radios to provide essential time reference for wireless sensor networks. The authors explain how to integrate such radios in a standard CMOS process to reduce both cost and size, while focusing on the challenge of designing a fully integrated time reference for such radios. To enable the integration of the time reference, system techniques are proposed and analyzed, several kinds of integrated time references are reviewed, and mobility-based references are identified as viable candidates to provide the required accuracy at low-power consumption. Practical implementations of a mobility-based oscillator and a temperature sensor are also presented, which demonstrate the required accuracy over a wide temperature range, while drawing 51-uW from a 1.2-V supply in a 65-nm CMOS process.

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