



# Design of Low-Noise Amplifiers for Ultra-Wideband Communications

*Roberto Díaz Ortega, Sunil Lalchand Khemchandani, Hugo García Vázquez, Francisco Javier del Pino Suárez*

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## **Cutting-edge techniques for ultra-wideband, low-noise amplifier design**

This pioneering resource presents alternatives for implementing power- and area-efficient integrated low-noise amplifiers for ultra-wideband communications. Design methodologies for distributed amplifiers, feedback amplifiers, inductor structures with reduced area, and inductorless techniques are discussed. Cowritten by international experts in industry and academia, this book addresses the state of the art in integrated circuit design in the context of emerging systems.

*Design of Low-Noise Amplifiers for Ultra-Wideband Communications* covers:

- Ultra-wideband overview and system approach
- Distributed amplifiers
- Wideband low-noise amplifiers
- Feedback wideband low-noise amplifiers
- Inductorless techniques

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