

## Concurrent multiband low-noise amplifiers-theory, design, and applications

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*H. Hashemi and A. Hajimiri. "Concurrent multiband low-noise amplifiers-theory, design, and applications." 2002 Transactions on Microwave Theory and Techniques 50.1 (Jan. 2002, Part II [T-MTT] (Special Issue on Silicon-Based RF and Microwave Integrated Circuits)): 288-301.*

The concept of concurrent multiband low-noise-amplifiers (LNAs) is introduced. A systematic way to design concurrent multiband integrated LNAs in general is developed. Applications of concurrent multiband LNAs in concurrent multiband receivers together with receiver architecture are discussed. Experimental results of a dual-band LNA implemented in a 0.35- $\mu\text{m}$  CMOS technology as a demonstration of the concept and theory is presented.

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