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Autore	Sadhu Bodhisatwa
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Nota di contenuto	Introduction -- Cognitive Radio Architectures -- Wideband Voltage Controlled Oscillator -- RF Sampling and Signal Processing -- CRAFT: Charge Re-use Analog Fourier Transform -- Conclusions.
Sommario/riassunto	This book focuses on the architecture and circuit design for cognitive radio receiver front-ends. The authors first provide a holistic explanation of RF circuits for cognitive radio systems. This is followed by an in-depth exploration of existing techniques that can be utilized by circuit designers. Coverage also includes novel circuit techniques and architectures that can be invaluable for designers for cognitive radio systems. • Discusses in detail the circuit-level challenges that exist for cognitive radio systems; • Provides readers with a holistic understanding of RF circuits for cognitive radio systems; • Enables communications engineers and systems designers to design better cognitive radio architectures and communication protocols.