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Wireless communication has become almost as ubiquitous as electricity, but RF design continues to challenge engineers and researchers. In the 15 years since the first edition of this classic text, the demand for higher performance has led to an explosive growth of RF design techniques. In *RF Microelectronics, Second Edition*, Behzad Razavi systematically teaches the fundamentals as well as the state-of-the-art developments in the analysis and design of RF circuits and transceivers.

Razavi has written the second edition to reflect today's RF microelectronics, covering key topics in far greater detail. At nearly three times the length of the first edition, the second edition is an indispensable tome for both students and practicing engineers. With his lucid prose, Razavi now

Offers a stronger tutorial focus along with hundreds of examples and problems

Teaches design as well as analysis with the aid of step-by-step design procedures and a chapter dedicated to the design of a dual-band WiFi transceiver

Describes new design paradigms and analysis techniques for circuits such as low-noise amplifiers, mixers, oscillators, and frequency dividers

This edition's extensive coverage includes brand new chapters on mixers, passive devices, integer-N synthesizers, and fractional-N synthesizers. Razavi's teachings culminate in a new chapter that begins with WiFi's radio specifications and, step by step, designs the transceiver at the transistor level.

Coverage includes

Core RF principles, including noise and nonlinearity, with ties to analog design, microwave theory, and communication systems

An intuitive treatment of modulation theory and wireless standards from the standpoint of the RF IC designer

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Transceiver architectures such as heterodyne, sliding-IF, directconversion, image-reject, and low-IF topologies.

Low-noise amplifiers, including cascode common-gate and commonsource topologies, noise-cancelling schemes, and reactance-cancelling configurations

Passive and active mixers, including their gain and noise analysis and new mixer topologies

Voltage-controlled oscillators, phase noise mechanisms, and various VCO topologies dealing with noise/power-tuning trade-offs

All-new coverage of passive devices, such as integrated inductors, MOS varactors, and transformers

A chapter on the analysis and design of phase-locked loops with emphasis on low phase noise and low spur levels

Two chapters on integer-N and fractional-N synthesizers, including the design of frequency dividers

Power amplifier principles and circuit topologies along with transmitter architectures, such as polar modulation and outphasing