



# RF Microelectronics

*Behzad Razavi*

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## RF Microelectronics Behzad Razavi

This book is designed to give electrical engineers the RF microelectronics background they need to design state-of-the-art consumer electronics and communications devices. RF Microelectronics begins with a thorough introduction to the fundamental concepts of RF design, including nonlinearity, interference and noise. It reviews modulation and detection theory; multiple access techniques, and current wireless standards -- including CDMA, TDMA, AMPS and GSM. It presents case studies of transceiver architectures designed by several leading manufacturers. Finally, it offers detailed explanations of low-noise amplifiers, mixers and oscillators; frequency synthesizers and power amplifiers. For electrical engineers working in the communications fields, especially those involved with wireless technology. Also for graduate students.

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