



# Radio Frequency Integrated Circuits and Systems

*Hooman Darabi*

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## **Radio Frequency Integrated Circuits and Systems** Hooman Darabi

Focusing on the core topics of RF IC and system design, this textbook provides the in-depth coverage and detailed mathematical analyses needed to gain a thorough understanding of the subject. Throughout, theory is linked to practice with real-world application examples; practical design guidance is also offered, covering the pros and cons of various topologies, and preparing students for future work in industry. Written for graduate courses on RFICs, this uniquely intuitive and practical book will also be of value to practising RF IC and system designers. Key topics covered include RF components, signals and systems; two-ports; noise; distortion; low-noise amplifiers; mixers; oscillators; power amplifiers; and transceiver architectures. Lecture slides and a solutions manual for instructors are provided online to complete the course package.

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