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Focusing on the core topics of radio frequency integrated circuits (RFICs) 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 RFIC 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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"[An] excellent textbook for students keenly interested to learn how to design IC transceivers. [Contains] lots of focused and relevant fundamental background from a viewpoint of the well-known industrial researcher. The book is also good as a convenient refresher for seasoned IC designers."

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"Although this is not the first book on RF circuits, it is the most up to date one that I know. For instance, it includes recent circuit insights to make CMOS radio receivers more interference robust. I especially like the intuition that Hooman Darabi develops and the depth of coverage without becoming overly mathematical."

Eric Klumperink, University of Twente

About the Author

Hooman Darabi is a Senior Technical Director and Fellow of Broadcom Corporation, California, and an Adjunct Professor at the University of California, Los Angeles. He is an IEEE Solid State Circuits Society distinguished lecturer and his research interests include analog and RF IC design for wireless communications.

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