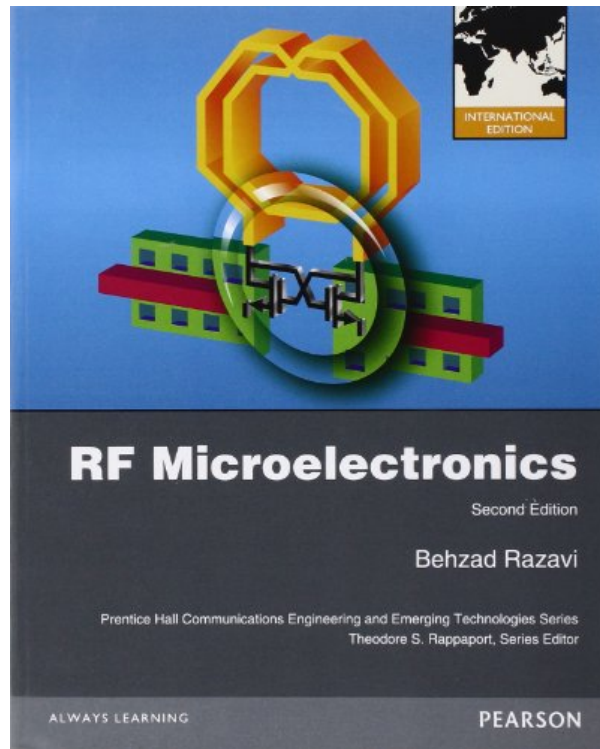
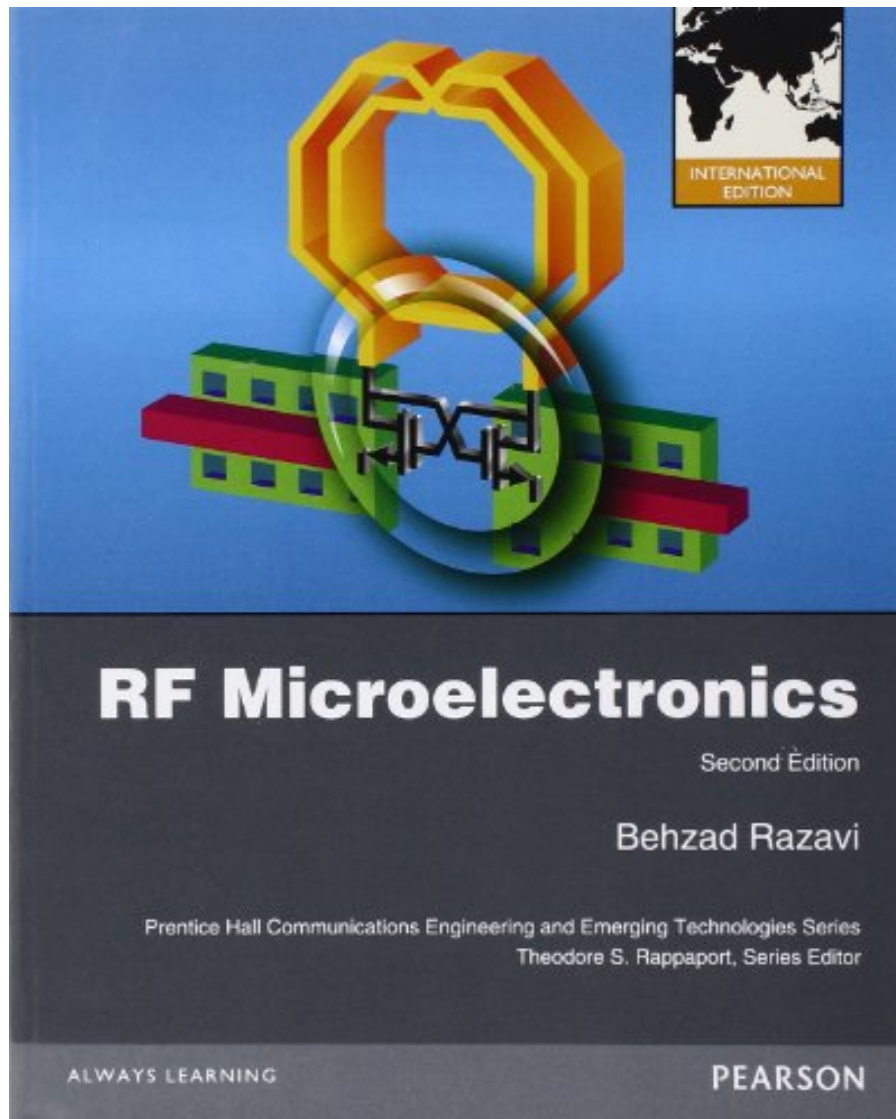


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## About the Author

Behzad Razavi, Professor of Electrical Engineering at UCLA, leads the Communication Circuits Laboratory (CCL). Emphasizing the use of mainstream CMOS technologies, CCL's research seeks and exploits new devices, circuits, and architectures to push the performance envelope. Razavi holds a BSEE from Sharif University of Technology and MSEE and PhDEE degrees from Stanford. He was with ATT Bell Laboratories and HP Labs until 1996. An IEEE Distinguished Lecturer and IEEE Fellow, his books include Design of Analog CMOS Integrated Circuits, Design of Integrated Circuits for Optical Communications, and Fundamentals of Microelectronics.

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The Acclaimed RF Microelectronics Best-Seller, Expanded and Updated for the Newest Architectures, Circuits, and Devices 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\*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

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Laboratories and HP Labs until 1996. An IEEE Distinguished Lecturer and IEEE Fellow, his books include Design of Analog CMOS Integrated Circuits, Design of Integrated Circuits for Optical Communications, and Fundamentals of Microelectronics.

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31 of 31 people found the following review helpful.

2nd Edition is Amazing!

By Ling Zhu

Well, as I stated in other Dr. Razavi's book reviews, it's my pleasure to own and read every book written by Dr. Razavi. I have been waiting for this new edition for some time, and immediately purchased this 2nd edition from amazon.com once it's published. As an RF/analog engineer, I personally have benefited from all of his masterpieces. Many thanks for the author's great efforts, Dr. Razavi's books have influenced many engineers and students in the RF/analog area.

So, how is this 2nd edition? In my opinion, it might be inappropriate to call it "2nd edition" as this is a completely new book with vast improvements from the 1st edition. We have experienced a rapid growth of RF design within last decade, and this book covers most of the fundamentals of RF circuit/system design techniques to deal with today's challenges. It's understandable that some of the readers are not happy with the 1st edition in their reviews, but this new book is totally different (Dr. Razavi says there's only 10% overlap between two editions in his preface to the 2nd edition, it's absolutely true). Here is what I like most:

1. Dedicated chapters for LNA and mixers;
2. Great coverage on passive devices;
3. Three chapters to cover frequency synthesizers, which cover fundamentals, integer-N and fractional-N synthesizers;
4. Step-by-step tutorial of modern RF transceiver design;
5. In addition to all the new materials on RF systems and circuits, one of the biggest improvements is that the author incorporated hundreds examples/problems in the book. Some help readers understand RF fundamentals, and some are very practical issues facing RF engineers.

There are several errors in the book, make an online search you'll be able to find the errata to the 2nd edition.

And of course, the coverage of RF design by a single book is limited though it has over 900 pages. Here are some of my recommendations if you are interested in other RF/analog materials, and they are not related to this review:

Analog circuit design:

Analysis and Design of Analog Integrated Circuits

Design of Analog CMOS Integrated Circuits

CMOS Analog Circuit Design (The Oxford Series in Electrical and Computer Engineering)

CMOS Circuit Design, Layout, and Simulation, 3rd Edition (IEEE Press Series on Microelectronic Systems)

Analog Integrated Circuit Design

RF Systems and Circuits:

Radio Receiver Design

RF and Microwave Transmitter Design (Wiley Series in Microwave and Optical Engineering)

The Design of CMOS Radio-Frequency Integrated Circuits, Second Edition

RF System Design of Transceivers for Wireless Communications

Practical RF System Design

24 of 25 people found the following review helpful.

Content seemed great, but not explained in detail

By A Customer

When I first bought this book, I was very hopeful. The book seemed to cover a lot of relevant material, in a concise fashion. When I tried to read it however, I found it a little bit too much on the concise side. I have read very complicated books with a lot of math before, and I could follow them easier than this "easy" writing style. Almost every subject is covered in other books in more detail and better. Sometimes it's nice to have a simpler book which is an introduction, and that is what I was hoping for, but this just didn't do it for me. I donated the book to the library, as I felt I would never really get too much out of it. This didn't stop me from buying Mr. Razavi's "Design of Analog CMOS ICs" and I liked his tutorial in the IEEE Phase Lock Loop book he edited. I know he can do a better job.

12 of 12 people found the following review helpful.

OK book, but buyer beware

By Turkish Engineer

This book covers a good deal of material in a very hot area. However, coverage is uneven with occasional mistakes. The book seems to be collected in a hurry some lecture notes. For example, the formula for the relationship between jitter and phase noise given at the beginning of the book is wrong (even units do not make sense) and is not the same for the expression given in the PLL chapter (it makes more sense).

I believe a good book on the field is yet to be written.

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