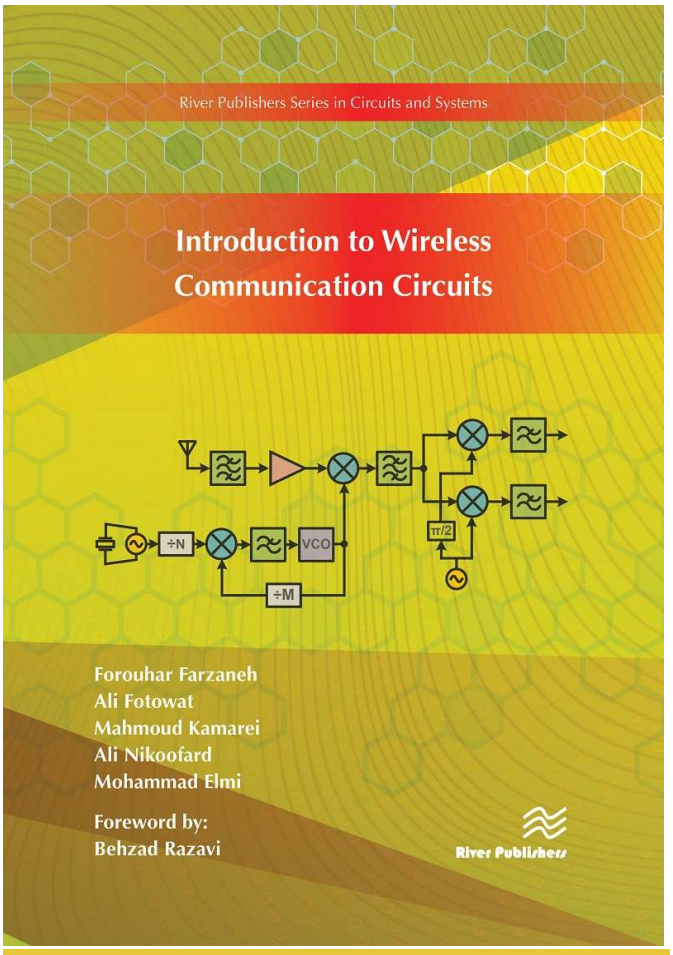
River Publishers

Introduction to Wireless Communication Circuits

Authors:
Forouhar Farzaneh, Sharif University of Technology, Iran
Ali Fotowat, Sharif University of Technology, Iran
Mahmoud Kamarei, University of Tehran, Iran
Ali Nikoofard, University of California at San Diego, USA
Mohammad Elmi, KavoshCom Asia Co., Iran

Foreword by: Behzad Razavi, UCLA, USA



Over the past decade, tremendous development of Wireless Communications has changed human life and engineering. Considerable advancement has been made in design and architecture of related RF and microwave circuits. *Introduction to Wireless Communication* Circuits focusses on special circuits dedicated to the RF level of wireless communications. From oscillators to modulation and demodulation, and from mixers to RF and power amplifier circuits, all are presented in a sequential manner. A wealth of analytical relations is provided in the text alongside various worked out examples. Related problem sets are given at the end of each chapter. Basic concepts of RF Analog Circuit Design are developed in the book.

Technical topics discussed include:

- Wireless Communication System
- RF Oscillators and Phase Locked Loops
- Modulator and Demodulator Circuits
- RF Mixers
- Automatic Gain Control and Limiters
- Microwave Circuits, Transmission Lines and S-Parameters
- Matching networks
- Linear Amplifier Design and Power Amplifiers
- Linearization Techniques

This textbook is intended for advanced undergraduate and graduate students, as well as RF Engineers and professionals

River Publishers Series in Electronic Materials, Circuits and Devices

ISBN: 9788793609716
e-ISBN: 9788793609709
Available From: May 2018
Price: € 85.00 $ 110.00

KEYWORDS:
Wireless Communication, RF Circuits, Microwaves, Receiver, Transmitter, Oscillator, Oscillator Topology, PLL, RF Amplifier, RF Mixer, Modulator, Demodulator, Impedance Matching, Smith Chart, AGC, Limiter, Transmission Lines, Scattering Parameters, Power Amplifier, Nonlinearity, Large Signal , Linearization

www.riverpublishers.com
marketing@riverpublishers.com