



Wireless Communication Electronics: Introduction to RF Circuits and Design Techniques

By Robert Sobot

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This book is intended for senior undergraduate and graduate students as well as practicing engineers who are involved in design and analysis of radio frequency (RF) circuits. Detailed tutorials are included on all major topics required to understand fundamental principles behind both the main sub-circuits required to design an RF transceiver and the whole communication system. Starting with review of fundamental principles in electromagnetic (EM) transmission and signal propagation, through detailed practical analysis of RF amplifier, mixer, modulator, demodulator, and oscillator circuit topologies, all the way to the system communication theory behind the RF transceiver operation, this book systematically covers all relevant aspects in a way that is suitable for a single semester university level course.

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- Offers readers a complete, self-sufficient tutorial style textbook;
- Includes all relevant topics required to study and design an RF receiver in a consistent, coherent way with appropriate depth for a one-semester course;
- The labs and the book chapters are synchronized throughout a 13-week semester so that the students first study each sub-circuit and the related theory in class, practice problems, work out design details and then build and test the sub-circuit in the lab, before moving onto the next chapter;
- Includes detailed derivations of all key equations related to new concepts.

Users Review

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Armando Rodgers:

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