



Microwave Circuit Design: A Practical Approach Using ADS

Kyung-Whan Yeom

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Microwave Circuit Design: A Practical Approach Using ADS Kyung-Whan Yeom
Today's Up-to-Date, Step-by-Step Guide to Designing Active Microwave Circuits

Microwave Circuit Design is a complete guide to modern circuit design, including simulation tutorials that demonstrate Keysight Technologies' Advanced Design System (ADS), one of today's most widely used electronic design automation packages. And the software-based circuit design techniques that Yeom presents can be easily adapted for any modern tool or environment.

Throughout, author Kyung-Whan Yeom uses the physical interpretation of basic concepts and concrete examples—not exhaustive calculations—to clearly and concisely explain the essential theory required to design microwave circuits, including passive and active device concepts, transmission line theory, and the basics of high-frequency measurement.

To bridge the gap between theory and practice, Yeom presents real-world, hands-on examples focused on key elements of modern communication systems, radars, and other microwave transmitters and receivers.

Practical coverage includes

- Up-to-date microwave simulation design examples based on ADS and easily adaptable to any simulator
- Detailed, step-by-step derivations of key design parameters related to procedures, devices, and performance
- Relevant, hands-on problem sets in every chapter
- Clear discussions of microwave IC categorization and roles; passive device impedances and equivalent circuits; coaxial and microstrip transmission lines; active devices (FET, BJT, DC Bias); and impedance matching
- A complete, step-by-step introduction to circuit simulation using the ADS toolset and window framework
- Low noise amplifier (LNA) design: gains, stability, conjugate matching, and noise circles
- Power amplifier (PA) design: optimum load impedances, classification, linearity, and composite PAs
- Microwave oscillator design: oscillation conditions, phase noise, basic circuits, and dielectric resonators
- Phase lock loops (PLL) design: configuration, operation, components, and loop filters
- Mixer design: specifications, Schottky diodes, qualitative analysis of mixers (SEM, SBM, DBM), and quantitative analysis of single-ended mixer (SEM)

Microwave Circuit Design brings together all the practical skills graduate students and professionals need to successfully design today's active microwave circuits.

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