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Introduction; 6.2 Ideal Transmission Line Transformers; 6.3 Transmission Line Transformer Synthesis; 6.4 Electrically Long Transmission Line Transformers; 6.5 Baluns; 6.6 Dividers And Combiners; Problems; References; 7 Class A Amplifiers; 7.1 Introduction; 7.2 Definition of Gain [2]; 7.3 Transducer Power Gain of a Two-Port; 7.4 Power Gain Using S Parameters; 7.5 Simultaneous Match for Maximum Power Gain; 7.6 Stability; 7.7 Class A Power Amplifiers 7.8 Power Combining of Power AmplifiersProblems; References; 8 Noise; 8.1 Sources of Noise; 8.2 Thermal Noise; 8.3 Shot Noise; 8.4 Noise Circuit Analysis; 8.5 Amplifier Noise Characterization; 8.6 Noise Measurement; 8.7 Noisy Two-Ports; 8.8 Two-Port Noise Figure Derivation; 8.9 The Fukui Noise Model for Transistors; 8.10 Properties of Cascaded Amplifiers; 8.11 Amplifier Design for Optimum Gain and Noise; Problems; References; 9 RF Power Amplifiers; 9.1 Transistor Configurations; 9.2 The Class B Amplifier; 9.3 The Class C Amplifier; 9.4 Class C Input Bias Voltage
9.5 The Class D Power Amplifier9.6 The Class F Power Amplifier; 9.7 Feed-Forward Amplifiers; Problems; References; 10 Oscillators and Harmonic Generators; 10.1 Oscillator Fundamentals; 10.2 Feedback Theory; 10.3 Two-Port Oscillators with External Feedback; 10.4 Practical Oscillator Example; 10.5 Minimum Requirements of the Reflection Coefficient; 10.6 Common Gate (Base) Oscillators; 10.7 Stability of an Oscillator; 10.8 Injection-Locked Oscillators; 10.9 Harmonic Generators; Problems; References; 11 RF Mixers; 11.1 Nonlinear Device Characteristics; 11.2 Figures of Merit for Mixers 11.3 Single-Ended Mixers

Sommario/riassunto

A much-needed, up-to-date guide to the rapidly growing area of RF circuit design, this book walks readers through a whole range of new and improved techniques for the analysis and design of receiver and transmitter circuits, illustrating them through examples from modern-day communications systems. The application of MMIC to RF design is also discussed.

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