



High Frequency Techniques: An Introduction to RF and Microwave Engineering

Joseph F. White

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Provides a hands-on approach to Radio Frequency and Microwave theory and design

This book provides engineers with a comprehensive guide to Radio Frequency (RF) circuit analysis and wave propagation in order to be able to design new systems. Emphasis is placed on fundamental concepts, engineering techniques, and the regular and intelligent use of the computer design tools. This book contains a review of wireless history and engineering fundamentals including complex numbers, alternating-current theory, and the logarithmic basis of decibels. The important topics in microwave design theory are discussed, such as transmission lines, the Smith Chart, and matrix algebra. Computer generated examples are used to provide insight into the basic performance, bandwidth, and manufacturing yield of RF and microwave networks. The author also provides a broad presentation of electromagnetic (EM) field theory tailored to the needs of the microwave and RF engineer.

- Explains how design challenges would be attacked in a real engineering environment
- Reviews AC analysis, Kirchhoff's laws, RLC elements, skin effect, and introduction to the use of computer simulation software
- Covers filter designs for Butterworth, Chebyshev, Bessel and elliptic responses, Kuroda's identities, and Richard's transformation
- Provides in-text exercises to emphasize a practical approach
- Includes access to a companion site hosting an instructor's manual

High Frequency Technique: An Introduction to RF and Microwave Design and Computer Simulation is a reference for RF, microwave, and wireless engineers, and graduate students in electrical and computer engineering.

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