



## High Frequency Techniques: An Introduction to RF and Microwave Engineering (Hardback)

By Joseph F. White

John Wiley and Sons Ltd, United States, 2004. Hardback. Condition: New. New. Language: English . Brand New Book. A practical guide for today s wireless engineer High Frequency Techniques: An Introduction to RF and Microwave Engineering is a clearly written classical circuit and field theory text illustrated with modern computer simulation software. The book s ten chapters cover: The origins and current uses of wireless transmission A review of AC analysis, Kirchhoff s laws, RLC elements, skin effect, and introduction to the use of computer simulation software Resonators, Q definitions, and Q-based impedance matching Transmission lines, waves, VSWR, reflection phenomena, Fano s reflection bandwidth limits, telegrapher, and impedance transformation equations Development and in-depth use of the Smith Chart Matrix algebra with Z, Y, ABCD, S, and T matrix applications An unusually thorough introduction to electromagnetic field theory, step-by-step development of vector calculus, Maxwell s equations, waveguides, propagation, and antennas Backward wave, branch line, rat race and Wilkinson couplers, impedance measurements, and detailed even and odd mode analysis Filter designs for Butterworth, Chebyshev, Bessel and elliptic responses, Kuroda s identities, Richards s transformation, and computer optimized designs Transistor amplifier design using Unilateral Gain, Simultaneous Match, Available Gain and Operating Gain approaches,...



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