



# High-Frequency and Microwave Circuit Design, Second Edition

*Charles Nelson*

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An integral part of any communications system, high-frequency and microwave design stimulates major progress in the wireless world and continues to serve as a foundation for the commercial wireless products we use every day. The exceptional pace of advancement in developing these systems stipulates that engineers be well versed in multiple areas of electronics engineering.

With more illustrations, examples, and worked problems, High-Frequency and Microwave Circuit Design, Second Edition provides engineers with a diverse body of knowledge they can use to meet the needs of this rapidly progressing field.

The book details the modulation and demodulation of circuits and relates resonant circuits to practical needs. The author provides a logical progression of material that moves from medium frequencies to microwave frequencies. He introduces rectangular waveguides as high-pass devices and explains conditions under which dielectric breakdown may limit the amount of power that may be transmitted in a completely expanded chapter. The section on antennas is completely updated to demystify the useful characteristic of antennas and relate their performance to the requirements of digital communication systems.

Exploring the latest developments in communications engineering, this reference outlines a variety of topics using sufficient mathematical derivations and provides an overview of the concepts engineers need to understand current technologies and develop those of the future.



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