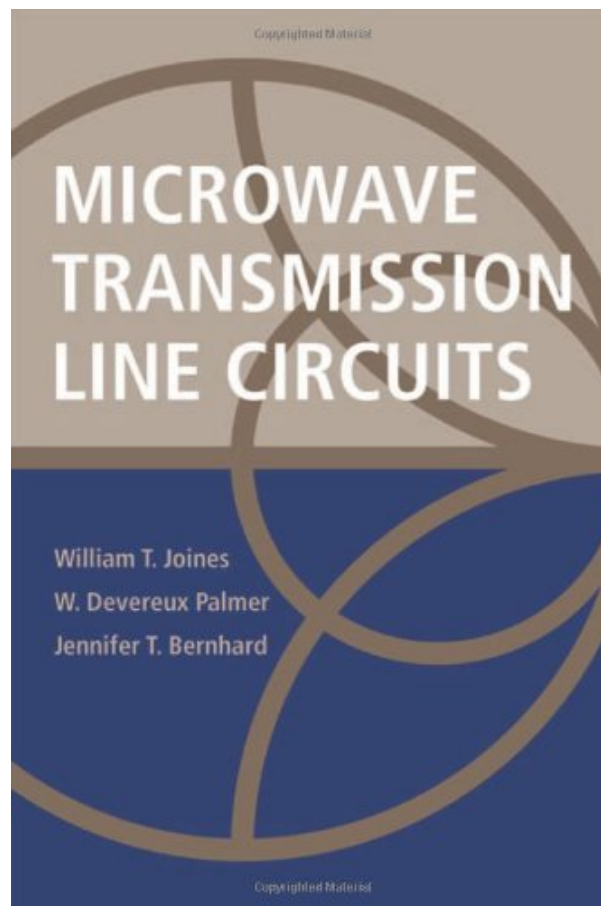
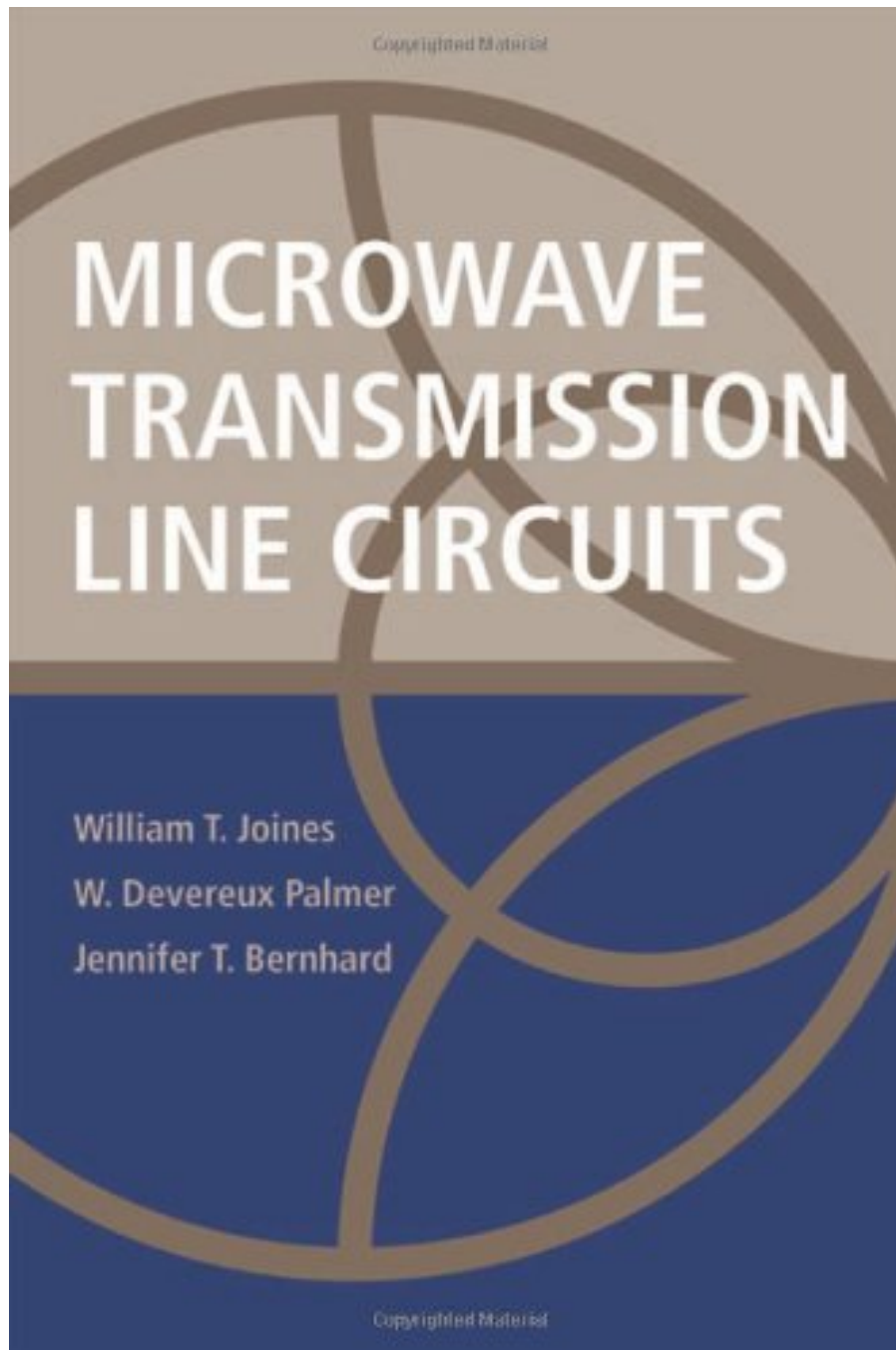


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Here is an authoritative resource that offers you valuable assistance with your work involving microwave circuit analysis and design. This practical book provides a thorough understanding of the properties of planar transmission lines for integrated circuits. It presents matrix and computer-aided methods for analysis and design of circuit components. You find in-depth details on input, output, and interstage networks, as well as coverage of stability, noise, and signal distortion.

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Contents: Introduction. Microwave Transmission Lines. Transmission Line Segments As Network Elements. Matrix Representation of Microwave Networks. Synthesis and Design of Frequency-Filtering Networks. Broadband Impedance-Matching Networks. Combining, Dividing, and Coupling Circuits. Transmission Line Applications in Active Circuits. Appendices.

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THE AUTHORITATIVE RESOURCE ON MICROWAVE TRANSMISSION LINE CIRCUITS

By COSMIC TRAVELER

Are you a student with a background in basic electrical circuit theory and electromagnetics? If you are, then this book is for you. Authors William Thomas Joines, William Devereux Palmer and Jennifer Truman Bernhard, have done an outstanding job of writing a book that includes planar transmission lines for integrated circuits and matrix and computer-aided methods for analysis and design of circuits components.

Authors Joines, Palmer and Nernhard, begin with an illustration of where the microwave region fits within the electromagnetic spectrum, together with the nomenclature of different operating bands and allocations by usage. Next, the authors present the theory and applications of various types of transmission line; and, the concepts of incident; reflected and transmitted voltage; and, current and power that are formalized with defining equations. In addition, they show how transmission segments can serve as network elements in much the same way as lumped-element capacitors and inductors. The authors also present analytical techniques that are discussed in later chapters. Then, they continue with a description of the synthesis and design techniques for frequency-selective networks. The authors then address a problem often encountered by the microwave engineer--providing an impedance match over a broad range of operating frequencies. Next, they cover combining, dividing, and coupling microwave signals, where the combining, dividing, and coupling may be designed, based on desired power level or on frequency channelization using frequency diplexers. Finally, they conclude by showing you how to apply microwave concepts and transmission line techniques to amplifier, oscillator, and phase shifter circuits, with the aim of obtaining a more complete understanding of these circuits.

This most excellent book includes information on the properties of planar transmission lines for integrated circuits and matrix and computer-aided methods for analysis and design of circuit components. In addition, this great book also includes fundamental theory and practical information on the analysis and design of input, output, and interstage networks for microwave transistor amplifiers and oscillators, along with topics on stability, noise, and signal distortion.

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