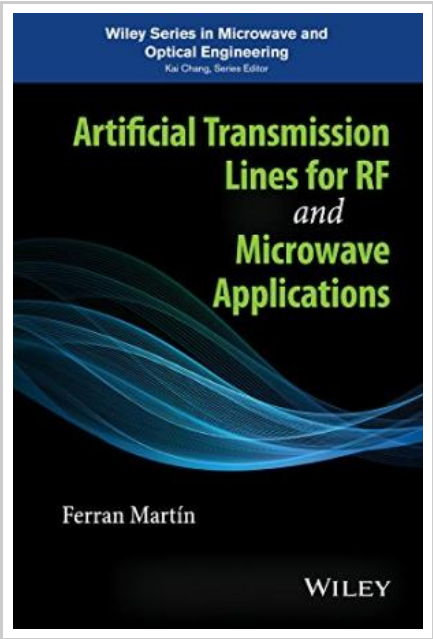

Artificial Transmission Lines for RF and Microwave Applications (Hardback)

By Ferran Martin

John Wiley Sons Inc, United States, 2015. Hardback. Book Condition: New. 250 x 150 mm. Language: English . Brand New Book. This book presents and discusses alternatives to ordinary transmission lines for the design and implementation of advanced RF/microwave components in planar technology. This book is devoted to the analysis, study and applications of artificial transmission lines mostly implemented by means of a host line conveniently modified (e.g., with modulation of transverse dimensions, with etched patterns in the metallic layers, etc.) or with reactive loading, in order to achieve novel device functionalities, superior performance, and/or reduced size. The author begins with an introductory chapter dedicated to the fundamentals of planar transmission lines. Chapter 2 is focused on artificial transmission lines based on periodic structures (including non-uniform transmission lines and reactively-loaded lines), and provides a comprehensive analysis of the coupled mode theory. Chapters 3 and 4 are dedicated to artificial transmission lines inspired by metamaterials, or based on metamaterial concepts. These chapters include the main practical implementations of such lines and their circuit models, and a wide overview of their RF/microwave applications (including passive and active circuits and antennas). Chapter 5 focuses on reconfigurable devices based on tunable artificial lines, and...

Reviews

Merely no words to spell out. Sure, it is actually perform, nonetheless an amazing and interesting literature. Once you begin to read the book, it is extremely difficult to leave it before concluding.

-- ***Vada Heidenreich***

This book is really gripping and interesting. Sure, it can be enjoy, nonetheless an amazing and interesting literature. I found out this ebook from my i and dad suggested this pdf to find out.

-- ***Mr. Manuela Mann II***