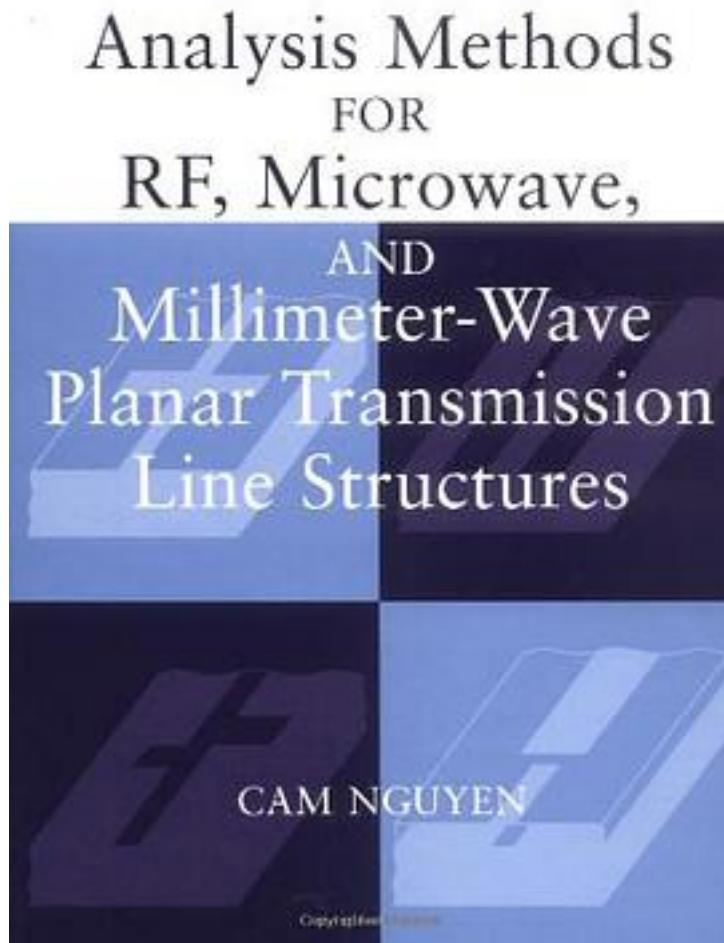


Analysis Methods for RF, Microwave, and Millimeter-Wave Planar

Wiley Series in Microwaves and Optical Engineering
Kai Chang, Series Editor



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Review

"...this book introduces the most commonly used techniques for analyzing microwave planar transmission line structures." (SciTech Book News, Vol. 25, No. 2, June 2001)

"All important fundamental concepts and principles are covered as far as is possible with in a text of reasonable size...addresses student of electromagnetic theory...also...the engineer who is need of knowledge and practical, easy-to-apply formulas for the various line systems." (Measurement Science & Technology, Vol. 12, No. 10, October 2001)

"...covers the analysis methods...from basics to advanced levels. All important fundamental concepts and principles are covered as far as is possible within a text of reasonable size." (Measurement Science & Technology, Vol. 12, No. 10, October 2001)

Product Description

A one-stop reference to the major techniques for analyzing microwave planar transmission line structures

The last two decades have seen important progress in the development of methods for the analysis of microwave and millimeter-wave passive structures, which contributed greatly to microwave integrated circuit design while also stimulating the development of new planar transmission lines. This timely and authoritative work introduces microwave engineers to the most commonly used techniques for analyzing microwave planar transmission line structures.

Designed to be easily accessible to readers with only a fundamental background in electromagnetic theory, the book provides clear explanations of the theory and applications of Green's function, the conformal-mapping method, spectral domain methods, variational methods, and the mode-matching methods. Coverage for each method is self-contained and supplemented with problems and solutions as well as useful figures.

In addition to providing detailed formulations of the methods under discussion, this highly practical book also demonstrates how to apply the principles of electromagnetic theory to the analysis of microwave boundary value problems, customize methods for specific needs, and develop new techniques. Analysis Methods for RF, Microwave, and Millimeter-Wave Planar Transmission Line Structures is an excellent working resource for anyone involved in the design and engineering of RF, microwave, and millimeter-wave integrated circuits.

作者介绍:

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