



Coplanar Microwave Integrated Circuits

By *Ingo Wolff*

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Coplanar Microwave Integrated Circuits By Ingo Wolff

The tools and techniques to fully leverage coplanar technology

Coplanar Microwave Integrated Circuits sets forth the theoretical underpinnings of coplanar waveguides and thoroughly examines the various coplanar components such as discontinuities, lumped elements, resonators, couplers, and filters, which are essential for microwave integrated circuit design. Based on the results of his own research findings, the author effectively demonstrates the many advantages of coplanar waveguide technology for modern circuit design.

Following a brief introductory chapter, the text thoroughly covers the material needed for successful design and realization of coplanar microwave circuits, including:

- * Fundamental transmission properties of coplanar waveguides using a full wave analysis
- * Detailed analysis of most discontinuities used in coplanar waveguide design
- * Lumped elements in coplanar technology that are needed in circuit design
- * Development of software for coplanar circuit design, including a CD-ROM containing a test version of the software for modeling coplanar circuit components and circuits
- * Application of derived results to build more complex components such as lumped element filters, waveguide filters, millimeter wave filters, end-coupled waveguide structures, waveguide couplers, and Wilkinson couplers for different frequency ranges in coplanar technology

The final chapter focuses on special coplanar microwave integrated circuits that have been developed using the software presented in the text. The book concludes with a thought-provoking discussion of the advantages and disadvantages of the coplanar technique.

Extensive use of figures and tables helps readers easily digest and visualize complex concepts. A bibliography is included at the end of each chapter for further study and research.

Coplanar Microwave Integrated Circuits is recommended for graduate students and engineers in RF microwaves who want to reap all the advantages and possibilities of coplanar technology.

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Editorial Review

From the Back Cover

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About the Author

INGO WOLFF, PhD, is the author of ten books and more than 200 papers published in leading microwave journals. He is a Fellow of the IEEE and has been a chairman of the IEEE MTT-1 Committee on Computer Aided Design. His research groups are global leaders in numerical electromagnetic field theory and its application to microwave circuit design.

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