



Planar Microwave Engineering: A Practical Guide to Theory, Measurement, and Circuits

By Thomas H. Lee

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Modern wireless communications hardware is underpinned by RF and microwave design techniques. This insightful book contains a wealth of circuit layouts, design tips, and practical measurement techniques for building and testing practical gigahertz systems. The book covers everything you need to know to design, build, and test a high-frequency circuit. Microstrip components are discussed, including tricks for extracting good performance from cheap materials. Connectors and cables are also described, as are discrete passive components, antennas, low-noise amplifiers, oscillators, and frequency synthesizers. Practical measurement techniques are presented in detail, including the use of network analyzers, sampling oscilloscopes, spectrum analyzers, and noise figure meters. Throughout the focus is practical, and many worked examples and design projects are included. There is also a CD-ROM that contains a variety of design and analysis programs. The book is packed with indispensable information for students taking courses on RF or microwave circuits and for practising engineers.

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Editorial Review

Review

"Planar Microwave Engineering is a massive, well-written book. It contains - contrary to many other RF books - a reasonable mixture of analytical equations and practical circuits suitable for rapid laboratory experiments and classes...it could well become the book of microwave engineering...Professor Lee's very friendly style and the high publishing standards make reading and using this text pleasant. As such Planar Microwave Engineering is suitable for everyday engineering use and for advanced university classes."

Pekka Eskelinen, IEEE AES Magazine

"[Five stars] This is an excellent book written in a light, clear manner by a knowledgeable and experienced engineer. References are annotated on each page and [this] has a major advantage in making the text directly readable while simultaneously underlining the relevance of the substance of the text...the comprehensive approach recommends itself to both student and professional engineers looking for a primer in this area."

Paul O'Leary, IEE Communications Engineer

"Finally, I can recommend a book to those wishing to learn about microwave and RF engineering. Professor Tom Lee's Planar Microwave Engineering: A Practical Guide to Theory, Measurement, and Circuits is a comprehensive and readable treatment of RF and microwave engineering. The 23 chapters of the book cover everything from the history of radio to using probes. Also included with the book is a CD with programs ranging from simulators, such as Puff, LTSprice, Sonnet, EZNEC, and Eagle, to tools such as AppCAD, PLL design, and Smith Chart manipulation...I highly recommend taking a look at Planar Microwave Engineering; it will be well worth your time."

IEEE Microwave Magazine

"... a fantastic CD-ROM ... that is full of all sorts of useful toys to help engineers design their circuits, both microwave and lower frequencies ... well written, printed and clear ... This book answers all your practical questions (or wakes you up to some you did not know existed!) in this complex field. Most highly recommended for all working in it."

Circuit World

About the Author

Thomas H. Lee received his Sc.D. from the Massachusetts Institute of Technology and is an Associate Professor of Electrical Engineering at Stanford University. He has been a Distinguished Lecturer of both the IEEE Solid-State Circuits Society and the IEEE Microwave Theory and Techniques Society. He is the winner of four 'best paper' awards at international conferences as well as a Packard Foundation Fellowship winner. He has written 100 technical papers and authored the acclaimed text 'The Design of CMOS Radio-Frequency Integrated Circuits' now published in its second edition by Cambridge University Press. He holds 35 US patents and has co-founded several companies, including Matrix Semiconductor.

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