


Microwave and RF Engineering


By Ali Behagi and Stephen Turner



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Unlike many traditional textbooks on microwave and RF engineering written mainly for the classroom, this book adopts a practical, hands-on approach to quickly introduce and familiarize students and engineers new to this subject. Topics range from an introduction of lumped elements and transmission line components to multi-stage amplifier design. Theoretical concepts are explained through the real world computer models. The authors extensively include the use of electronic design automation tools to illustrate the foundation principles of microwave and RF engineering. This book introduces not only a solid understanding of microwave and RF engineering concepts but also more importantly how to use design automation tools to analyze, synthesize, simulate, tune and optimize these essential components in a design flow as practiced in the industry. Authors have designed the text to be a 'hands-on' book, loaded with practical examples. It stresses the importance of design automation techniques with heavy emphasis on Agilent's Genesys Linear Software suite. In addition to university and college students, engineers and technicians will find this text an invaluable reference to have in their library. The investment in learning the microwave and RF engineering foundation skills with design automation techniques taught in this book results in knowledge that remains relevant and sought-after for a long time to come.

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Editorial Review

About the Author

Ali A. Behagi received the Ph.D. degree in electrical engineering from the University of Southern California and the MS degree in electrical engineering from the University of Michigan. He has several years of industrial experience with Hughes Aircraft and Beckman Instruments. Dr. Behagi joined Penn State University as an associate professor of electrical engineering in 1986. He has devoted over 20 years to teaching microwave engineering courses and directing university research projects. While at Penn State he received a National Science Foundation grant to establish a microwave and RF engineering lab and the Keysight/Agilent software grant to use in teaching high frequency circuit design courses and laboratory experiments. After retirement from Penn State he has been active as an educational consultant. Dr. Behagi is a Keysight Certified Expert, a Senior Member of the Institute of Electrical and Electronics Engineers (IEEE), and the Microwave Theory and Techniques Society.

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