



Microwave and RF Engineering

Ali A. Behagi, Stephen D. 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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