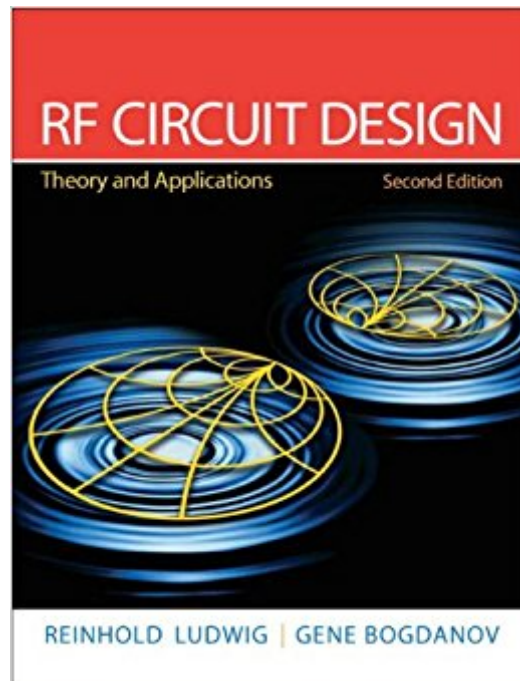




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RF Circuit Design: Theory & Applications (2nd Edition)



Synopsis

This straightforward volume takes a distributed, transmission line approach to RF circuit design, with a focus on methodology fundamentals and minimal discussion of theoretical concepts. The Second Edition introduces RF design tools such as the Smith Chart, dual port networks, S-parameters, and provides extensive coverage of RF filter design, matching networks, active and passive device modeling, narrow and broadband amplifiers, mixers, and oscillators. Approaches RF design from a circuit perspective, so readers need little or no background in electromagnetic fields. Prominently features key RF concepts in sidebars throughout the text. For anyone interested in learning more about RF circuit design.

Book Information

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Customer Reviews

I find this book to be one of the clearest engineering books I've had the pleasure to read. That's not to say that the material covered is easy or that the book is simple, however the author's writing style is quite easy to follow and they try not to deviate much from the main topic. It is very common for an RF design book to go deep into the world of Electro-Magnetic Theory and Maxwell equations, however this book tries to avoid unnecessary coverage of EM theory, many engineering books try to cover much fundamental EM theory to "remind" the reader of his previous EM courses, however this is not the case in this book, meaning that you don't have to go through 3-4 chapters of academic EM theory before you get to the new material you want to learn, I find that very appealing, less emphasis is made on the academic side of EM theory and more emphasis is made on its

applications or engineering aspects. That being said, EM is indeed covered when needed and it is also a pre-requisite for this book as well as advanced math such as multivariable calculus and differential equations, yet only used when needed. In contrast to the very popular book "RF Circuit Design" by Bowick, I find this book by Ludwig and Bogdanov to be much more complete and complex, I always liked the apparent practicality of the book by Bowick but I think that it lacks a solid theoretical foundation, formulas are presented without much explanation as to what they do and where they come from, yet it may be one of the best books to get a general idea of the subject. This book by Ludwig and Bogdanov has a perfect blend between theoretical/academic and practical approaches.

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