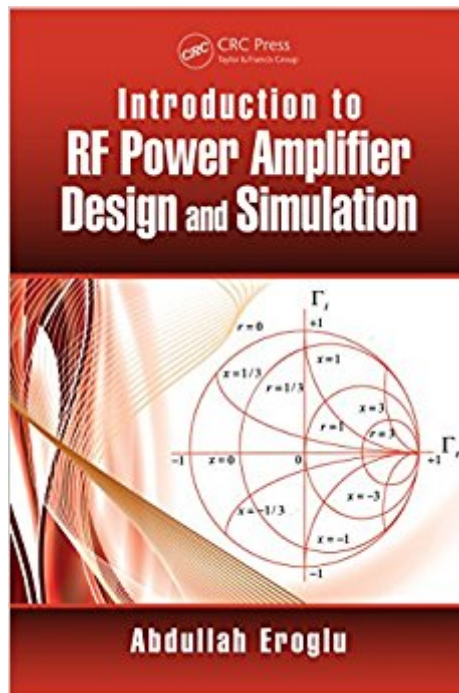




The book was found

Introduction To RF Power Amplifier Design And Simulation



Synopsis

Introduction to RF Power Amplifier Design and Simulation fills a gap in the existing literature by providing step-by-step guidance for the design of radio frequency (RF) power amplifiers, from analytical formulation to simulation, implementation, and measurement. Featuring numerous illustrations and examples of real-world engineering applications, this book:

- Gives an overview of intermodulation and elaborates on the difference between linear and nonlinear amplifiers
- Describes the high-frequency model and transient characteristics of metal-oxide-semiconductor field-effect transistors
- Details active device modeling techniques for transistors and parasitic extraction methods for active devices
- Explores network and scattering parameters, resonators, matching networks, and tools such as the Smith chart
- Covers power-sensing devices including four-port directional couplers and new types of reflectometers
- Presents RF filter designs for power amplifiers as well as application examples of special filter types
- Demonstrates the use of computer-aided design (CAD) tools, implementing systematic design techniques

Blending theory with practice, Introduction to RF Power Amplifier Design and Simulation supplies engineers, researchers, and RF/microwave engineering students with a valuable resource for the creation of efficient, better-performing, low-profile, high-power RF amplifiers.

Book Information

File Size: 44919 KB

Print Length: 449 pages

Publisher: CRC Press; 1 edition (July 29, 2015)

Publication Date: July 29, 2015

Sold by: Amazon Digital Services LLC

Language: English

ASIN: B0116R45HO

Text-to-Speech: Not enabled

X-Ray: Not Enabled

Word Wise: Not Enabled

Lending: Not Enabled

Enhanced Typesetting: Not Enabled

Best Sellers Rank: #721,520 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #15

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