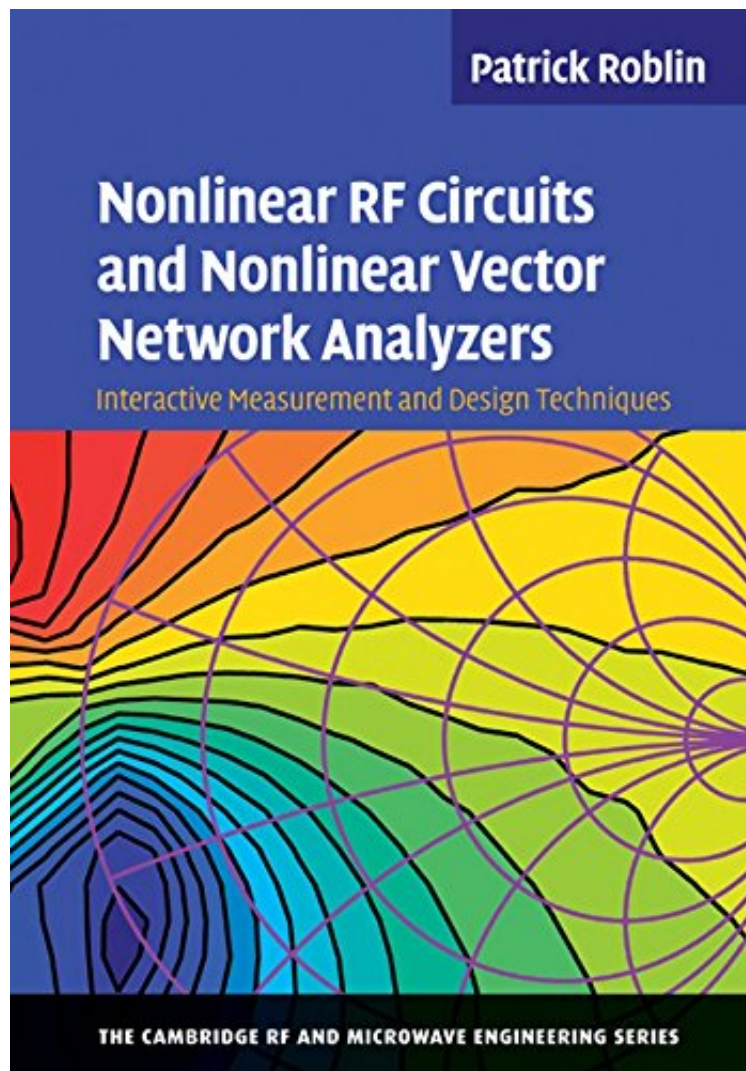


(Library ebook) Nonlinear RF Circuits and Nonlinear Vector Network Analyzers: Interactive Measurement and Design Techniques (The Cambridge RF and Microwave Engineering Series)

# Nonlinear RF Circuits and Nonlinear Vector Network Analyzers: Interactive Measurement and Design Techniques (The Cambridge RF and Microwave Engineering Series)

*Patrick Roblin*

*ePub | \*DOC | audiobook | ebooks | Download PDF*



[Download](#)

[Read Online](#)

#2770926 in Books Cambridge University Press 2011-07-11 Original language: English PDF # 1 9.72 x .75 x 6.851, 1.65 #File Name: 0521889952300 pages | File size: 79.Mb

**Patrick Roblin : Nonlinear RF Circuits and Nonlinear Vector Network Analyzers: Interactive Measurement and Design Techniques (The Cambridge RF and Microwave Engineering Series)** before purchasing it in order to gage whether or not it would be worth my time, and all praised Nonlinear RF Circuits and Nonlinear Vector Network

Analyzers: Interactive Measurement and Design Techniques (The Cambridge RF and Microwave Engineering Series):

With increasingly low-cost and power-efficient RF electronics demanded by today's wireless communication systems, it is essential to keep up to speed with new developments. This book presents key advances in the field that you need to know about and emerging patterns in large-signal measurement techniques, modeling and nonlinear circuit design theory supported by practical examples. Topics covered include: Novel large-signal measurement techniques that have become available with the introduction of nonlinear vector network analyzers (NVNA), such as the LSNA, PNA-X and SWAP Direct extraction of device models from large-signal RF dynamic loadlines Characterization of memory effects (self-heating, traps) with pulsed RF measurements Interactive design of power-efficient amplifiers (PA) and oscillators using ultra-fast multi-harmonic active load-pull Volterra and poly-harmonic distortion (X-parameters) behavioral modeling Oscillator phase noise theory Balancing, modeling and poly-harmonic linearization of broadband RFIC modulators Development of a frequency selective predistorter to linearize PAs

About the Author Patrick Roblin is a Professor in the Department of Electrical and Computer Engineering at Ohio State University (OSU). He has worked at OSU since 1984, after receiving his D.Sc. degree in electrical engineering from Washington University. He is the founder of the Nonlinear RF Research Laboratory at OSU and previously co-wrote the book *High-Speed Heterostructure Devices* (Cambridge University Press, 2002).