



Compehensive Nonlinear Modelling of Dispersive Heterstructure Field Effect Transistors and their MMIC Applications

By Ingmar Kallfass

Cuvillier Verlag Jun 2006, 2006. Taschenbuch. Book Condition: Neu. 210x146x15 mm. Neuware - A custom HFET model was developed and applied in the design of several MMIC applications. The model is expressly dedicated to microwave circuit design. Its analytical nonlinear equations provide a compromise between physical interpretability, numerical e ciency and global validity. As an essential part of the overall model, the COBRA expression features a highly e cient and accurate description of complex HFET drain current characteristics. A modi cation was introduced to include the reduction of drain current due to the self-heating e ect as well as for improved description of gain compression. A new approach to frequency dispersion modelling extends the model¿s validity range from the microwave- down to the lowfrequency and DC regimes. The proposed dispersion model relies on conventional device characterisation techniques and standard parameter ex-traction procedures. The inclusion of multiple dispersion time constants and exponentially decaying step responses accurately re ects the physical nature of individual dispersion ef-fects, providing a correct description of transitions between dispersion regimes both in the time- and frequency domain. As a consequence, the model allows for accurate assessment of dynamic (gain, matching, intermodulation etc.), static (e.g....

Reviews

This book will never be straightforward to start on reading through but quite enjoyable to learn. Better then never, though i am quite late in start reading this one. Your lifestyle span will probably be convert once you complete reading this publication.

-- Dr. Kadin Hane DVM

This publication may be worth purchasing. it was actually writtern quite flawlessly and valuable. I am just happy to tell you that this is actually the very best book i actually have study inside my personal life and can be he best ebook for actually.

-- Frank Nienow

Other Books



Psychologisches Testverfahren

Reference Series Books LLC Nov 2011, 2011. Taschenbuch. Book Condition: Neu. 249x191x7 mm. This item is printed on demand - Print on Demand Neuware - Quelle: Wikipedia. Seiten: 100. Kapitel: Myers-Briggs-Typindikator, Keirsey Temperament Sorter, DISG, Eignungstest für das Medizinstudium, Adult Attachment Interview,...



Programming in D

Ali Cehreli Dez 2015, 2015. Buch. Book Condition: Neu. 264x182x53 mm. This item is printed on demand - Print on Demand Neuware - The main aim of this book is to teach D to readers who are new to computer programming. Although...



A Smarter Way to Learn JavaScript: The New Approach That Uses Technology to Cut Your Effort in Half (Paperback)

Createspace, United States, 2014. Paperback. Book Condition: New. 251×178 mm. Language: English . Brand New Book ***** Print on Demand *****. The ultimate learn-by-doing approach Written for beginners, useful for experienced developers who want to sharpen their skills and don t mind...



The Voyagers Series - Europe: A New Multi-Media Adventure Book 1 (Paperback)

Strength Through Communications, United States, 2011. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****. The Voyagers Series is a new multi-media, multi-disciplinary approach to teaching reading that provides students with a stimulating,...



The Voyagers Series - Africa: Book 2 (Paperback)

Voyagers Series, Inc., United States, 2011. Paperback. Book Condition: New. 229 x 152 mm. Language: English. Brand New Book ***** Print on Demand *****. The Voyagers Series is a new multi-media, multi-disciplinary approach to teaching reading that provides students with a stimulating,...



The Java Tutorial (3rd Edition)

Pearson Education, 2001. Softcover. Book Condition: Neu. Gebraucht - Sehr gut Unbenutzt. Schnelle Lieferung, Kartonverpackung. Abzugsfähige Rechnung. Bei Mehrfachbestellung werden die Versandkosten anteilig erstattet. - Praise for "The Java' Tutorial, Second Edition" includes: "This book stands above the rest because it has...