



CMOS Analog Design Using All-Region MOSFET Modeling

By Márcio Cherem Schneider, Carlos Galup-Montoro

Download now

Read Online 

CMOS Analog Design Using All-Region MOSFET Modeling By Márcio Cherem Schneider, Carlos Galup-Montoro

Covering the essentials of analog circuit design, this book takes a unique design approach based on a MOSFET model valid for all operating regions, rather than the standard square-law model. Opening chapters focus on device modeling, integrated circuit technology, and layout, whilst later chapters go on to cover noise and mismatch, and analysis and design of the basic building blocks of analog circuits, such as current mirrors, voltage references, voltage amplifiers, and operational amplifiers. An introduction to continuous-time filters is also provided, as are the basic principles of sampled-data circuits, especially switched-capacitor circuits. The final chapter then reviews MOSFET models and describes techniques to extract design parameters. With numerous design examples and exercises also included, this is ideal for students taking analog CMOS design courses and also for circuit designers who need to shorten the design cycle.

 [Download CMOS Analog Design Using All-Region MOSFET Modelin...pdf](#)

 [Read Online CMOS Analog Design Using All-Region MOSFET Model...pdf](#)

CMOS Analog Design Using All-Region MOSFET Modeling

By Márcio Cherem Schneider, Carlos Galup-Montoro

CMOS Analog Design Using All-Region MOSFET Modeling By Márcio Cherem Schneider, Carlos Galup-Montoro

Covering the essentials of analog circuit design, this book takes a unique design approach based on a MOSFET model valid for all operating regions, rather than the standard square-law model. Opening chapters focus on device modeling, integrated circuit technology, and layout, whilst later chapters go on to cover noise and mismatch, and analysis and design of the basic building blocks of analog circuits, such as current mirrors, voltage references, voltage amplifiers, and operational amplifiers. An introduction to continuous-time filters is also provided, as are the basic principles of sampled-data circuits, especially switched-capacitor circuits. The final chapter then reviews MOSFET models and describes techniques to extract design parameters. With numerous design examples and exercises also included, this is ideal for students taking analog CMOS design courses and also for circuit designers who need to shorten the design cycle.

CMOS Analog Design Using All-Region MOSFET Modeling By Márcio Cherem Schneider, Carlos Galup-Montoro **Bibliography**

- Sales Rank: #4304972 in Books
- Published on: 2010-03-15
- Original language: English
- Number of items: 1
- Dimensions: 9.72" h x 1.02" w x 6.85" l, 2.50 pounds
- Binding: Hardcover
- 504 pages



[Download CMOS Analog Design Using All-Region MOSFET Modelin ...pdf](#)



[Read Online CMOS Analog Design Using All-Region MOSFET Model ...pdf](#)

Download and Read Free Online CMOS Analog Design Using All-Region MOSFET Modeling By Márcio Cherem Schneider, Carlos Galup-Montoro

Editorial Review

About the Author

Márcio Cherem Schneider is a Professor in the Electrical Engineering Department at the Federal University of Santa Catarina, Brazil, where he has worked since 1976. He has also spent a year at the Swiss Federal Institute of Technology (EPFL) and has worked as a Visiting Associate Professor in the Department of Electrical and Computer Engineering at Texas A&M University. His current research interests mainly focus on MOSFET modeling and transistor-level design, in particular of analog and RF circuits.

Carlos Galup-Montoro is currently a Visiting Scholar in the Electrical Engineering Department at the University of California, Berkeley, and a Professor in the Electrical Engineering Department at the Federal University of Santa Catarina, Brazil, where he has worked since 1990. His main research interests are in field-effect transistor modeling and transistor-level design.

Users Review

From reader reviews:

Julian Loredo:

Why don't make it to become your habit? Right now, try to prepare your time to do the important behave, like looking for your favorite e-book and reading a guide. Beside you can solve your condition; you can add your knowledge by the guide entitled CMOS Analog Design Using All-Region MOSFET Modeling. Try to make the book CMOS Analog Design Using All-Region MOSFET Modeling as your close friend. It means that it can to become your friend when you experience alone and beside that of course make you smarter than ever before. Yeah, it is very fortuned for you personally. The book makes you considerably more confidence because you can know almost everything by the book. So , let's make new experience and also knowledge with this book.

Jackson Ponce:

Do you certainly one of people who can't read satisfying if the sentence chained inside the straightway, hold on guys that aren't like that. This CMOS Analog Design Using All-Region MOSFET Modeling book is readable through you who hate the straight word style. You will find the details here are arrange for enjoyable studying experience without leaving perhaps decrease the knowledge that want to provide to you. The writer connected with CMOS Analog Design Using All-Region MOSFET Modeling content conveys thinking easily to understand by many individuals. The printed and e-book are not different in the articles but it just different as it. So , do you nevertheless thinking CMOS Analog Design Using All-Region MOSFET Modeling is not loveable to be your top collection reading book?

Janice Wilham:

A lot of people always spent their very own free time to vacation or perhaps go to the outside with them

loved ones or their friend. Do you realize? Many a lot of people spent they free time just watching TV, as well as playing video games all day long. If you wish to try to find a new activity here is look different you can read a book. It is really fun for you. If you enjoy the book that you read you can spent 24 hours a day to reading a book. The book CMOS Analog Design Using All-Region MOSFET Modeling it is quite good to read. There are a lot of folks that recommended this book. These folks were enjoying reading this book. Should you did not have enough space to create this book you can buy the e-book. You can m0ore easily to read this book from a smart phone. The price is not to fund but this book has high quality.

Carmine Caulfield:

Playing with family in a park, coming to see the water world or hanging out with good friends is thing that usually you will have done when you have spare time, subsequently why you don't try thing that really opposite from that. One particular activity that make you not experience tired but still relaxing, trilling like on roller coaster you already been ride on and with addition of knowledge. Even you love CMOS Analog Design Using All-Region MOSFET Modeling, you may enjoy both. It is good combination right, you still want to miss it? What kind of hang type is it? Oh can occur its mind hangout people. What? Still don't have it, oh come on its known as reading friends.

Download and Read Online CMOS Analog Design Using All-Region MOSFET Modeling By Márcio Cherem Schneider, Carlos Galup-Montoro #XJDMAL3FBQT

Read CMOS Analog Design Using All-Region MOSFET Modeling By Márcio Cherem Schneider, Carlos Galup-Montoro for online ebook

CMOS Analog Design Using All-Region MOSFET Modeling By Márcio Cherem Schneider, Carlos Galup-Montoro Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read CMOS Analog Design Using All-Region MOSFET Modeling By Márcio Cherem Schneider, Carlos Galup-Montoro books to read online.

Online CMOS Analog Design Using All-Region MOSFET Modeling By Márcio Cherem Schneider, Carlos Galup-Montoro ebook PDF download

CMOS Analog Design Using All-Region MOSFET Modeling By Márcio Cherem Schneider, Carlos Galup-Montoro Doc

CMOS Analog Design Using All-Region MOSFET Modeling By Márcio Cherem Schneider, Carlos Galup-Montoro Mobipocket

CMOS Analog Design Using All-Region MOSFET Modeling By Márcio Cherem Schneider, Carlos Galup-Montoro EPub

XJDMAL3FBQT: CMOS Analog Design Using All-Region MOSFET Modeling By Márcio Cherem Schneider, Carlos Galup-Montoro