



Design of Low-Voltage, Low-Power Operational Amplifier Cells (The Springer International Series in Engineering and Computer Science)

Ron Hogervorst, Johan Huijsing

Download now

[Click here](#) if your download doesn't start automatically

Design of Low-Voltage, Low-Power Operational Amplifier Cells (The Springer International Series in Engineering and Computer Science)

Ron Hogervorst, Johan Huijsing

Design of Low-Voltage, Low-Power Operational Amplifier Cells (The Springer International Series in Engineering and Computer Science) Ron Hogervorst, Johan Huijsing

Design of Low-Voltage, Low-Power CMOS Operational Amplifier Cells describes the theory and design of the circuit elements that are required to realize a low-voltage, low-power operational amplifier. These elements include constant-gm rail-to-rail input stages, class-AB rail-to-rail output stages and frequency compensation methods. Several examples of each of these circuit elements are investigated. Furthermore, the book illustrates several silicon realizations, giving their measurement results.

The text focuses on compact low-voltage low-power operational amplifiers with good performance. Six simple high-performance class-AB amplifiers are realized using a very compact topology making them particularly suitable for use as VLSI library cells. All of the designs can use a supply voltage as low as 3V. One of the amplifier designs dissipates only 50 μ W with a unity gain frequency of 1.5 MHz. A second set of amplifiers run on a supply voltage slightly above 1V. The amplifiers combine a low power consumption with a gain of 120 dB. In addition, the design of three fully differential operational amplifiers is addressed.

Design of Low-Voltage, Low-Power CMOS Operational Amplifier Cells is intended for professional designers of analog circuits. It is also suitable for use as a text book for an advanced course in CMOS operational amplifier design.

 [Download Design of Low-Voltage, Low-Power Operational Ampli ...pdf](#)

 [Read Online Design of Low-Voltage, Low-Power Operational Amp ...pdf](#)

Download and Read Free Online Design of Low-Voltage, Low-Power Operational Amplifier Cells (The Springer International Series in Engineering and Computer Science) Ron Hogervorst, Johan Huijsing

From reader reviews:

Joseph Felix:

The book Design of Low-Voltage, Low-Power Operational Amplifier Cells (The Springer International Series in Engineering and Computer Science) gives you the sense of being enjoy for your spare time. You may use to make your capable a lot more increase. Book can to become your best friend when you getting pressure or having big problem with the subject. If you can make studying a book Design of Low-Voltage, Low-Power Operational Amplifier Cells (The Springer International Series in Engineering and Computer Science) being your habit, you can get considerably more advantages, like add your capable, increase your knowledge about several or all subjects. You are able to know everything if you like open and read a book Design of Low-Voltage, Low-Power Operational Amplifier Cells (The Springer International Series in Engineering and Computer Science). Kinds of book are a lot of. It means that, science reserve or encyclopedia or other individuals. So , how do you think about this reserve?

Amber Weitz:

Design of Low-Voltage, Low-Power Operational Amplifier Cells (The Springer International Series in Engineering and Computer Science) can be one of your starter books that are good idea. Many of us recommend that straight away because this guide has good vocabulary that could increase your knowledge in language, easy to understand, bit entertaining however delivering the information. The writer giving his/her effort to get every word into satisfaction arrangement in writing Design of Low-Voltage, Low-Power Operational Amplifier Cells (The Springer International Series in Engineering and Computer Science) yet doesn't forget the main stage, giving the reader the hottest and based confirm resource details that maybe you can be among it. This great information can certainly drawn you into fresh stage of crucial contemplating.

Sharon Doyle:

Is it an individual who having spare time after that spend it whole day by watching television programs or just resting on the bed? Do you need something totally new? This Design of Low-Voltage, Low-Power Operational Amplifier Cells (The Springer International Series in Engineering and Computer Science) can be the solution, oh how comes? A fresh book you know. You are consequently out of date, spending your extra time by reading in this fresh era is common not a geek activity. So what these books have than the others?

John Rivera:

As we know that book is important thing to add our knowledge for everything. By a publication we can know everything we really wish for. A book is a set of written, printed, illustrated or perhaps blank sheet. Every year ended up being exactly added. This guide Design of Low-Voltage, Low-Power Operational Amplifier Cells (The Springer International Series in Engineering and Computer Science) was filled regarding science. Spend your extra time to add your knowledge about your scientific research competence.

Some people has distinct feel when they reading any book. If you know how big selling point of a book, you can really feel enjoy to read a reserve. In the modern era like currently, many ways to get book that you wanted.

Download and Read Online Design of Low-Voltage, Low-Power Operational Amplifier Cells (The Springer International Series in Engineering and Computer Science) Ron Hogervorst, Johan Huijsing #1IW93DB2LA4

Read Design of Low-Voltage, Low-Power Operational Amplifier Cells (The Springer International Series in Engineering and Computer Science) by Ron Hogervorst, Johan Huijsing for online ebook

Design of Low-Voltage, Low-Power Operational Amplifier Cells (The Springer International Series in Engineering and Computer Science) by Ron Hogervorst, Johan Huijsing 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 Design of Low-Voltage, Low-Power Operational Amplifier Cells (The Springer International Series in Engineering and Computer Science) by Ron Hogervorst, Johan Huijsing books to read online.

Online Design of Low-Voltage, Low-Power Operational Amplifier Cells (The Springer International Series in Engineering and Computer Science) by Ron Hogervorst, Johan Huijsing ebook PDF download

Design of Low-Voltage, Low-Power Operational Amplifier Cells (The Springer International Series in Engineering and Computer Science) by Ron Hogervorst, Johan Huijsing Doc

Design of Low-Voltage, Low-Power Operational Amplifier Cells (The Springer International Series in Engineering and Computer Science) by Ron Hogervorst, Johan Huijsing Mobipocket

Design of Low-Voltage, Low-Power Operational Amplifier Cells (The Springer International Series in Engineering and Computer Science) by Ron Hogervorst, Johan Huijsing EPub