


[DOWNLOAD](#)


## Current Sense Amplifiers for Embedded SRAM in High-performance System-on-a-chip Designs: For Embedded SRAM in High-performance System-on-a-chip Designs

By Bernhard Wicht

Springer-Verlag Berlin and Heidelberg GmbH & Co. K. Paperback. Condition: New. 164 pages. Dimensions: 9.1in. x 6.1in. x 0.5in. System-on-a-chip (SoC) designs result in a wide range of high-complexity, high-value semiconductor products. As the technology scales towards smaller feature sizes and chips grow larger, a speed limitation arises due to an increased RC delay associated with interconnection wires. Innovative circuit techniques are required to achieve the speed needed for high-performance signal processing. Current sensing is considered as a promising circuit class since it is inherently faster than conventional voltage sense amplifiers. However, especially in SRAM, current sensing has rarely been used so far. Practical implementations are challenging because they require sophisticated analog circuit techniques in a digital environment. The objective of this book is to provide a systematic and comprehensive insight into current sensing techniques. Both theoretical and practical aspects are covered. Design guidelines are derived by systematic analysis of different circuit principles. Innovative concepts like compensation of the bit line multiplexer and auto-power-down will be explained based on theory and experimental results. The material will be interesting for design engineers in industry as well as researchers who want to learn about and apply current sensing techniques....



[READ ONLINE](#)  
[ 8.42 MB ]

### Reviews

*Thorough manual for ebook fans. it had been written quite properly and valuable. It is extremely difficult to leave it before concluding, once you begin to read the book.*

-- **Dr. Catherine Wehner**

*Absolutely among the best book I have possibly go through. I have go through and that i am certain that i am going to gonna read through once again again in the future. I am just delighted to tell you that this is basically the finest book i have got go through within my personal existence and could be he finest book for ever.*

-- **Brian Bauch**

## You May Also Like



### Too Old for Motor Racing: A Short Story in Case I Didnt Live Long Enough to Finish Writing a Longer One

Balboa Press. Paperback. Book Condition: New. Paperback. 106 pages. Dimensions: 9.0in. x 6.0in. x 0.3in.We all have dreams of what we want to do and who we want to become. Many of us eventually decide it is too late; we have missed...



### Summer Fit Preschool to Kindergarten Math, Reading, Writing, Language Arts Fitness, Nutrition and Values

Summer Fit Learning. Paperback. Book Condition: New. Paperback. 160 pages. Dimensions: 10.6in. x 8.3in. x 0.5in.Summer Fit Activity Books move summer learning beyond academics to also prepare children physically and socially for the grade ahead. Academic exercises are based on Common Core...



### Molly on the Shore, BFMS 1 Study score

Petrucci Library Press. Paperback. Book Condition: New. Paperback. 26 pages. Dimensions: 9.7in. x 6.9in. x 0.3in.Percy Grainger, like his contemporary Bela Bartok, was intensely interested in folk music and became a member of the English Folk-Song Society soon after his arrival in...



### Coronation Mass, K. 317 Vocal Score Latin Edition

Petrucci Library Press. Paperback. Book Condition: New. Paperback. 56 pages. Dimensions: 9.6in. x 6.7in. x 0.1in.Otto Taubmanns classic vocal score of Mozarts Coronation Mass was first issued in the early 20th century and has become the standard edition in continuous use by...



### DK READERS Pirates Raiders of the High Seas

DK CHILDREN. Paperback. Book Condition: New. Paperback. 48 pages. Dimensions: 8.8in. x 5.9in. x 0.2in.Meet Pirates who got away with murder. . . and pirates who died in the hangmans noose! These 48-page books about fascinating subjects like pirates, mummies, and volcanoes...



### Shepherds Hey, Bfms 16: Study Score

Petrucci Library Press. Paperback. Book Condition: New. Paperback. 22 pages. Dimensions: 9.4in. x 7.1in. x 0.0in.Percy Grainger, like his contemporary Bela Bartok, was intensely interested in folk music and became a member of the English Folk-Song Society soon after his arrival in...