



Robust SRAM Designs and Analysis

By Jawar Singh, Saraju P. Mohanty, Dhiraj K. Pradhan

Download now

Read Online 

Robust SRAM Designs and Analysis By Jawar Singh, Saraju P. Mohanty, Dhiraj K. Pradhan

This book provides a guide to Static Random Access Memory (SRAM) bitcell design and analysis to meet the nano-regime challenges for CMOS devices and emerging devices, such as Tunnel FETs. Since process variability is an ongoing challenge in large memory arrays, this book highlights the most popular SRAM bitcell topologies (benchmark circuits) that mitigate variability, along with exhaustive analysis. Experimental simulation setups are also included, which cover nano-regime challenges such as process variation, leakage and NBTI for SRAM design and analysis. Emphasis is placed throughout the book on the various trade-offs for achieving a best SRAM bitcell design.

- Provides a complete and concise introduction to SRAM bitcell design and analysis;
- Offers techniques to face nano-regime challenges such as process variation, leakage and NBTI for SRAM design and analysis;
- Includes simulation set-ups for extracting different design metrics for CMOS technology and emerging devices;
- Emphasizes different trade-offs for achieving the best possible SRAM bitcell design.

 [Download Robust SRAM Designs and Analysis ...pdf](#)

 [Read Online Robust SRAM Designs and Analysis ...pdf](#)

Robust SRAM Designs and Analysis

By Jawar Singh, Saraju P. Mohanty, Dhiraj K. Pradhan

Robust SRAM Designs and Analysis By Jawar Singh, Saraju P. Mohanty, Dhiraj K. Pradhan

This book provides a guide to Static Random Access Memory (SRAM) bitcell design and analysis to meet the nano-regime challenges for CMOS devices and emerging devices, such as Tunnel FETs. Since process variability is an ongoing challenge in large memory arrays, this book highlights the most popular SRAM bitcell topologies (benchmark circuits) that mitigate variability, along with exhaustive analysis. Experimental simulation setups are also included, which cover nano-regime challenges such as process variation, leakage and NBTI for SRAM design and analysis. Emphasis is placed throughout the book on the various trade-offs for achieving a best SRAM bitcell design.

- Provides a complete and concise introduction to SRAM bitcell design and analysis;
- Offers techniques to face nano-regime challenges such as process variation, leakage and NBTI for SRAM design and analysis;
- Includes simulation set-ups for extracting different design metrics for CMOS technology and emerging devices;
- Emphasizes different trade-offs for achieving the best possible SRAM bitcell design.

Robust SRAM Designs and Analysis By Jawar Singh, Saraju P. Mohanty, Dhiraj K. Pradhan
Bibliography

- Rank: #4244829 in Books
- Brand: Brand: Springer
- Published on: 2012-07-31
- Original language: English
- Number of items: 1
- Dimensions: 9.21" h x .44" w x 6.14" l, .95 pounds
- Binding: Hardcover
- 168 pages

 [Download Robust SRAM Designs and Analysis ...pdf](#)

 [Read Online Robust SRAM Designs and Analysis ...pdf](#)

Editorial Review

From the Back Cover

This book provides a guide to Static Random Access Memory (SRAM) bitcell design and analysis to meet the nano-regime challenges for CMOS devices and emerging devices, such as Tunnel FETs. Since process variability is an ongoing challenge in large memory arrays, this book highlights the most popular SRAM bitcell topologies (benchmark circuits) that mitigate variability, along with exhaustive analysis. Experimental simulation setups are also included, which cover nano-regime challenges such as process variation, leakage and NBTI for SRAM design and analysis. Emphasis is placed throughout the book on the various trade-offs for achieving a best SRAM bitcell design.

- Provides a complete and concise introduction to SRAM bitcell design and analysis;
- Offers techniques to face nano-regime challenges such as process variation, leakage and NBTI for SRAM design and analysis;
- Includes simulation set-ups for extracting different design metrics for CMOS technology and emerging devices;
- Emphasizes different trade-offs for achieving the best possible SRAM bitcell design.

Users Review

From reader reviews:

Robin Blakely:

Book is to be different for each and every grade. Book for children right up until adult are different content. As we know that book is very important for all of us. The book Robust SRAM Designs and Analysis had been making you to know about other understanding and of course you can take more information. It is extremely advantages for you. The guide Robust SRAM Designs and Analysis is not only giving you far more new information but also being your friend when you experience bored. You can spend your own personal spend time to read your guide. Try to make relationship together with the book Robust SRAM Designs and Analysis. You never sense lose out for everything should you read some books.

Patricia Gallagher:

A lot of people always spent their particular free time to vacation or maybe go to the outside with them friends and family or their friend. Are you aware? Many a lot of people spent they will free time just watching TV, or perhaps playing video games all day long. If you need to try to find a new activity honestly, that is look different you can read a book. It is really fun in your case. If you enjoy the book that you simply read you can spent the entire day to reading a reserve. The book Robust SRAM Designs and Analysis it is very good to read. There are a lot of people that recommended this book. These folks were enjoying reading this book. In case you did not have enough space to develop this book you can buy the particular e-book. You can m0ore simply to read this book through your smart phone. The price is not too expensive but this book features high quality.

Audrey Patton:

People live in this new morning of lifestyle always try and and must have the extra time or they will get large amount of stress from both everyday life and work. So , whenever we ask do people have time, we will say absolutely without a doubt. People is human not just a robot. Then we consult again, what kind of activity are you experiencing when the spare time coming to a person of course your answer will unlimited right. Then do you ever try this one, reading ebooks. It can be your alternative in spending your spare time, the book you have read is definitely Robust SRAM Designs and Analysis.

Stephanie Landa:

What is your hobby? Have you heard this question when you got pupils? We believe that that query was given by teacher with their students. Many kinds of hobby, Everybody has different hobby. Therefore you know that little person including reading or as looking at become their hobby. You must know that reading is very important and also book as to be the matter. Book is important thing to increase you knowledge, except your own personal teacher or lecturer. You will find good news or update about something by book. A substantial number of sorts of books that can you go onto be your object. One of them is actually Robust SRAM Designs and Analysis.

**Download and Read Online Robust SRAM Designs and Analysis By
Jawar Singh, Saraju P. Mohanty, Dhiraj K. Pradhan
#P6D5INKHE47**

Read Robust SRAM Designs and Analysis By Jawar Singh, Saraju P. Mohanty, Dhiraj K. Pradhan for online ebook

Robust SRAM Designs and Analysis By Jawar Singh, Saraju P. Mohanty, Dhiraj K. Pradhan 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 Robust SRAM Designs and Analysis By Jawar Singh, Saraju P. Mohanty, Dhiraj K. Pradhan books to read online.

Online Robust SRAM Designs and Analysis By Jawar Singh, Saraju P. Mohanty, Dhiraj K. Pradhan ebook PDF download

Robust SRAM Designs and Analysis By Jawar Singh, Saraju P. Mohanty, Dhiraj K. Pradhan Doc

Robust SRAM Designs and Analysis By Jawar Singh, Saraju P. Mohanty, Dhiraj K. Pradhan Mobipocket

Robust SRAM Designs and Analysis By Jawar Singh, Saraju P. Mohanty, Dhiraj K. Pradhan EPub