

Nano-Semiconductors: Devices and Technology (Devices, Circuits, and Systems)

From CRC Press

Download now

Read Online ➔

Nano-Semiconductors: Devices and Technology (Devices, Circuits, and Systems) From CRC Press

With contributions from top international experts from both industry and academia, **Nano-Semiconductors: Devices and Technology** is a must-read for anyone with a serious interest in future nanofabrication technologies.

Taking into account the semiconductor industry's transition from standard CMOS silicon to novel device structures?including carbon nanotubes (CNT), graphene, quantum dots, and III-V materials?this book addresses the state of the art in nano devices for electronics. It provides an all-encompassing, one-stop resource on the materials and device structures involved in the evolution from micro- to nanoelectronics.


The book is divided into three parts that address:

- Semiconductor materials (i.e., carbon nanotubes, memristors, and spin organic devices)
- Silicon devices and technology (i.e., BiCMOS, SOI, various 3D integration and RAM technologies, and solar cells)
- Compound semiconductor devices and technology

This reference explores the groundbreaking opportunities in emerging materials that will take system performance beyond the capabilities of traditional CMOS-based microelectronics. Contributors cover topics ranging from electrical propagation on CNT to GaN HEMTs technology and applications. Approaching the trillion-dollar nanotech industry from the perspective of real market needs and the repercussions of technological barriers, this resource provides vital information about elemental device architecture alternatives that will lead to massive strides in future development.

[!\[\]\(d3102649f02e825ddb76dc3de0190154_img.jpg\) Download Nano-Semiconductors: Devices and Technology \(Devic](#)

[...pdf](#)

 [Read Online Nano-Semiconductors: Devices and Technology \(Dev
...pdf](#)

Nano-Semiconductors: Devices and Technology (Devices, Circuits, and Systems)

From CRC Press

Nano-Semiconductors: Devices and Technology (Devices, Circuits, and Systems) From CRC Press

With contributions from top international experts from both industry and academia, **Nano-Semiconductors: Devices and Technology** is a must-read for anyone with a serious interest in future nanofabrication technologies.

Taking into account the semiconductor industry's transition from standard CMOS silicon to novel device structures?including carbon nanotubes (CNT), graphene, quantum dots, and III-V materials?this book addresses the state of the art in nano devices for electronics. It provides an all-encompassing, one-stop resource on the materials and device structures involved in the evolution from micro- to nanoelectronics.

The book is divided into three parts that address:

- Semiconductor materials (i.e., carbon nanotubes, memristors, and spin organic devices)
- Silicon devices and technology (i.e., BiCMOS, SOI, various 3D integration and RAM technologies, and solar cells)
- Compound semiconductor devices and technology

This reference explores the groundbreaking opportunities in emerging materials that will take system performance beyond the capabilities of traditional CMOS-based microelectronics. Contributors cover topics ranging from electrical propagation on CNT to GaN HEMTs technology and applications. Approaching the trillion-dollar nanotech industry from the perspective of real market needs and the repercussions of technological barriers, this resource provides vital information about elemental device architecture alternatives that will lead to massive strides in future development.

Nano-Semiconductors: Devices and Technology (Devices, Circuits, and Systems) From CRC Press
Bibliography

- Sales Rank: #5663862 in Books
- Published on: 2011-10-24
- Original language: English
- Number of items: 1
- Dimensions: 1.30" h x 6.40" w x 9.30" l, 2.07 pounds
- Binding: Hardcover
- 599 pages



[Download Nano-Semiconductors: Devices and Technology \(Devic ...pdf](#)

 [Read Online Nano-Semiconductors: Devices and Technology \(Dev ...pdf](#)

Editorial Review

About the Author

Krzysztof Iniewski is managing R&D developments at Redlen Technologies, Inc., a start-up company in British Columbia, and is also an Executive Director of CMOS Emerging Technologies, Inc.

Users Review

From reader reviews:

Angel Garcia:

Book is written, printed, or created for everything. You can understand everything you want by a reserve. Book has a different type. As it is known to us that book is important thing to bring us around the world. Adjacent to that you can your reading proficiency was fluently. A book Nano-Semiconductors: Devices and Technology (Devices, Circuits, and Systems) will make you to possibly be smarter. You can feel much more confidence if you can know about everything. But some of you think that open or reading a new book make you bored. It's not make you fun. Why they can be thought like that? Have you seeking best book or ideal book with you?

Louise Graham:

What do you in relation to book? It is not important along with you? Or just adding material when you need something to explain what yours problem? How about your extra time? Or are you busy person? If you don't have spare time to perform others business, it is give you a sense of feeling bored faster. And you have spare time? What did you do? All people has many questions above. The doctor has to answer that question due to the fact just their can do in which. It said that about book. Book is familiar in each person. Yes, it is suitable. Because start from on guardería until university need this Nano-Semiconductors: Devices and Technology (Devices, Circuits, and Systems) to read.

Deborah Ayers:

Hey guys, do you would like to finds a new book to read? May be the book with the subject Nano-Semiconductors: Devices and Technology (Devices, Circuits, and Systems) suitable to you? Typically the book was written by famous writer in this era. The book untitled Nano-Semiconductors: Devices and Technology (Devices, Circuits, and Systems) is a single of several books that will everyone read now. This kind of book was inspired a lot of people in the world. When you read this guide you will enter the new way of measuring that you ever know previous to. The author explained their strategy in the simple way, so all of people can easily to be aware of the core of this publication. This book will give you a lot of information about this world now. To help you to see the represented of the world in this book.

Sandra Fritz:

The publication with title Nano-Semiconductors: Devices and Technology (Devices, Circuits, and Systems) contains a lot of information that you can discover it. You can get a lot of benefit after read this book. This kind of book exist new know-how the information that exist in this reserve represented the condition of the world right now. That is important to yo7u to understand how the improvement of the world. That book will bring you within new era of the the positive effect. You can read the e-book on your own smart phone, so you can read it anywhere you want.

**Download and Read Online Nano-Semiconductors: Devices and Technology (Devices, Circuits, and Systems) From CRC Press
#AEPZ4IXD2B5**

Read Nano-Semiconductors: Devices and Technology (Devices, Circuits, and Systems) From CRC Press for online ebook

Nano-Semiconductors: Devices and Technology (Devices, Circuits, and Systems) From CRC Press 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 Nano-Semiconductors: Devices and Technology (Devices, Circuits, and Systems) From CRC Press books to read online.

Online Nano-Semiconductors: Devices and Technology (Devices, Circuits, and Systems) From CRC Press ebook PDF download

Nano-Semiconductors: Devices and Technology (Devices, Circuits, and Systems) From CRC Press Doc

Nano-Semiconductors: Devices and Technology (Devices, Circuits, and Systems) From CRC Press Mobipocket

Nano-Semiconductors: Devices and Technology (Devices, Circuits, and Systems) From CRC Press EPub

AEPZ4IXD2B5: Nano-Semiconductors: Devices and Technology (Devices, Circuits, and Systems) From CRC Press