



Nanoelectronics and Information Technology

From Brand: Wiley-VCH

Download now

Read Online ➔

Nanoelectronics and Information Technology From Brand: Wiley-VCH

Providing an introduction to electronic materials and device concepts for the major areas of current and future information technology, the value of this book lies in its focus on the underlying principles. Illustrated by contemporary examples, these basic principles will hold, despite the rapid developments in this field, especially emphasizing nanoelectronics.

There is hardly any field where the links between basic science and application are tighter than in nanoelectronics & information technology. As an example, the design of resonant tunneling transistors, single electron devices or molecular electronic structures is simply inconceivable without delving deep into quantum mechanics.

This textbook is primarily aimed at students of physics, electrical engineering and information technology, as well as material science in their 3rd year and higher. It is equally of interest to professionals wanting a broader overview of this hot topic.

"Nanoelectronics and Information Technology" by Rainer Waser and his colleagues is an outstanding compendium of information about an exciting new field. Owing to its high quality and complete coverage of the many topics in this area, this well referenced book will have a long and very useful life as a primary text for students experienced and new in nanoelectronics. It is a very impressive book." (Richard Siegel)

↓ [Download Nanoelectronics and Information Technology ...pdf](#)

📖 [Read Online Nanoelectronics and Information Technology ...pdf](#)

Nanoelectronics and Information Technology

From Brand: Wiley-VCH

Nanoelectronics and Information Technology From Brand: Wiley-VCH

Providing an introduction to electronic materials and device concepts for the major areas of current and future information technology, the value of this book lies in its focus on the underlying principles. Illustrated by contemporary examples, these basic principles will hold, despite the rapid developments in this field, especially emphasizing nanoelectronics.

There is hardly any field where the links between basic science and application are tighter than in nanoelectronics & information technology. As an example, the design of resonant tunneling transistors, single electron devices or molecular electronic structures is simply inconceivable without delving deep into quantum mechanics.

This textbook is primarily aimed at students of physics, electrical engineering and information technology, as well as material science in their 3rd year and higher. It is equally of interest to professionals wanting a broader overview of this hot topic.

"Nanoelectronics and Information Technology" by Rainer Waser and his colleagues is an outstanding compendium of information about an exciting new field. Owing to its high quality and complete coverage of the many topics in this area, this well referenced book will have a long and very useful life as a primary text for students experienced and new in nanoelectronics. It is a very impressive book." (Richard Siegel)

Nanoelectronics and Information Technology From Brand: Wiley-VCH Bibliography

- Sales Rank: #4096479 in Books
- Brand: Brand: Wiley-VCH
- Published on: 2003-04-09
- Original language: English
- Number of items: 1
- Dimensions: 11.34" h x 1.80" w x 8.80" l,
- Binding: Hardcover
- 1002 pages



[Download Nanoelectronics and Information Technology ...pdf](#)



[Read Online Nanoelectronics and Information Technology ...pdf](#)

Editorial Review

Review

"... is an outstanding compendium of information about an exciting new field. Owing to its high quality and complete coverage of the many topics in this area, this well referenced book will have a long and very useful life as a primary text for students experienced and new in nanoelectronics. It is a very impressive book."

Prof. Richard Siegel, US Nano-Initiative

"The editor and contributing authors obviously did an excellent job in compiling this book. ... This is a well-written textbook covering a very broad spectrum of topics related to materials and devices. The editor brought together an impressive group of experts to write on their own fields. ... The book is very well structured. Each section starts with a general introduction to prepare readers with general background and concepts as well as a guide to the following individual chapters. ... I am sure that I shall consult this book frequently for both research and teaching."

Guozhong Cao,

University of Washington,

Department of Material Science and Engineering, Seattle,

Advanced Materials, October 18, 2004

From the Back Cover

Providing an introduction to electronic materials and device concepts for the major areas of current and future information technology, the value of this book lies in its focus on the underlying principles. Illustrated by contemporary examples, these basic principles will hold, despite the rapid developments in this field, especially emphasizing nanoelectronics.

There is hardly any field where the links between basic science and application are tighter than in nanoelectronics & information technology. As an example, the design of resonant tunneling transistors, single electron devices or molecular electronic structure is simply inconceivable without delving deep into quantum mechanics.

This textbook is primarily aimed at students of physics, electrical engineering and information technology, as well as material science in their 3rd year and higher. It is equally of interest to professional wanting a broader overview of this hot topic.

About the Author

The Editor:

Rainer Waser is Professor of Physics at the faculty for Electrical Engineering and Information Technology of the RWTH Aachen University and Director at the Institute of Solid State Research (IFF) at the HGF Research Center Jülich, Germany.

In 1984, he received his PhD in physical chemistry at the University of Darmstadt, and worked at the Philips Research Laboratory, Aachen, until he was appointed professor in 1992. His research group is focused on fundamental aspects of electronic materials and on such integrated devices as non-volatile memories, specifically ferroelectric memories, logic devices,

sensors and actuators. Throughout, he has been collaborating with major semiconductor industries in Europe, the US, and the Far East. He has been honored with the IEEE "Ferroelectrics Recognition Award 2000".

Rainer Waser has organized several international conferences, published about 200 technical papers and holds ten patents. Since 2001, he has been the coordinator of the research program Information Technology and Nanoelectronics within the German National Research Centers (Helmholtz-Gemeinschaft).

Users Review

From reader reviews:

Jack Cluck:

The feeling that you get from Nanoelectronics and Information Technology may be the more deep you digging the information that hide inside words the more you get interested in reading it. It does not mean that this book is hard to recognise but Nanoelectronics and Information Technology giving you excitement feeling of reading. The article author conveys their point in selected way that can be understood simply by anyone who read the idea because the author of this guide is well-known enough. This book also makes your current vocabulary increase well. Making it easy to understand then can go to you, both in printed or e-book style are available. We propose you for having that Nanoelectronics and Information Technology instantly.

William Fugate:

Information is provisions for folks to get better life, information these days can get by anyone at everywhere. The information can be a information or any news even a concern. What people must be consider any time those information which is inside former life are challenging to be find than now could be taking seriously which one is appropriate to believe or which one the actual resource are convinced. If you have the unstable resource then you obtain it as your main information we will see huge disadvantage for you. All those possibilities will not happen with you if you take Nanoelectronics and Information Technology as your daily resource information.

Novella Tinch:

Reading can called head hangout, why? Because while you are reading a book specifically book entitled Nanoelectronics and Information Technology your thoughts will drift away trough every dimension, wandering in each and every aspect that maybe unfamiliar for but surely might be your mind friends. Imaging every single word written in a reserve then become one contact form conclusion and explanation this maybe you never get just before. The Nanoelectronics and Information Technology giving you yet another experience more than blown away your brain but also giving you useful data for your better life in this particular era. So now let us show you the relaxing pattern at this point is your body and mind will be pleased when you are finished reading it, like winning a sport. Do you want to try this extraordinary spending spare time activity?

Nancy Barry:

This Nanoelectronics and Information Technology is brand-new way for you who has intense curiosity to look for some information as it relief your hunger info. Getting deeper you upon it getting knowledge more you know otherwise you who still having little digest in reading this Nanoelectronics and Information Technology can be the light food for you personally because the information inside that book is easy to get by simply anyone. These books produce itself in the form that is certainly reachable by anyone, yeah I mean in the e-book type. People who think that in book form make them feel tired even dizzy this e-book is the answer. So there is absolutely no in reading a e-book especially this one. You can find actually looking for. It should be here for you. So , don't miss the idea! Just read this e-book kind for your better life as well as knowledge.

**Download and Read Online Nanoelectronics and Information
Technology From Brand: Wiley-VCH #EI5Y7S9UT4N**

Read Nanoelectronics and Information Technology From Brand: Wiley-VCH for online ebook

Nanoelectronics and Information Technology From Brand: Wiley-VCH 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 Nanoelectronics and Information Technology From Brand: Wiley-VCH books to read online.

Online Nanoelectronics and Information Technology From Brand: Wiley-VCH ebook PDF download

Nanoelectronics and Information Technology From Brand: Wiley-VCH Doc

Nanoelectronics and Information Technology From Brand: Wiley-VCH Mobipocket

Nanoelectronics and Information Technology From Brand: Wiley-VCH EPub

EI5Y7S9UT4N: Nanoelectronics and Information Technology From Brand: Wiley-VCH