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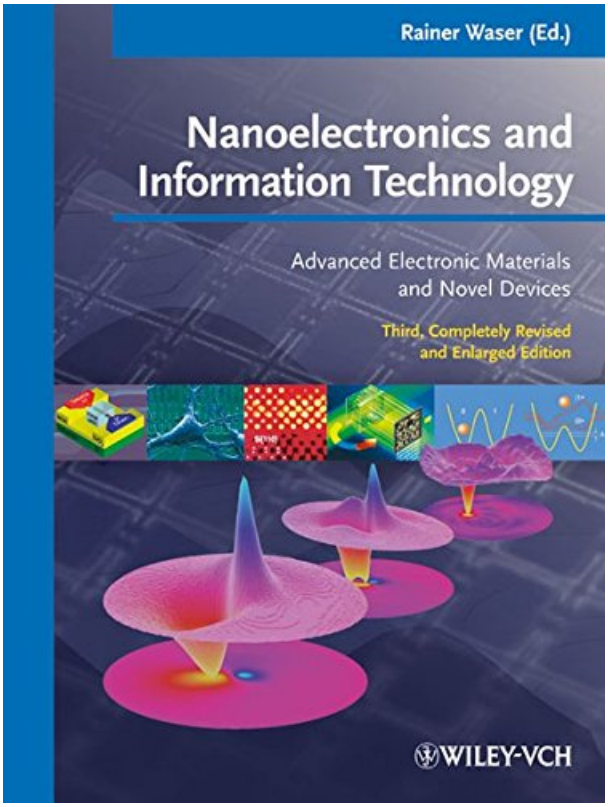

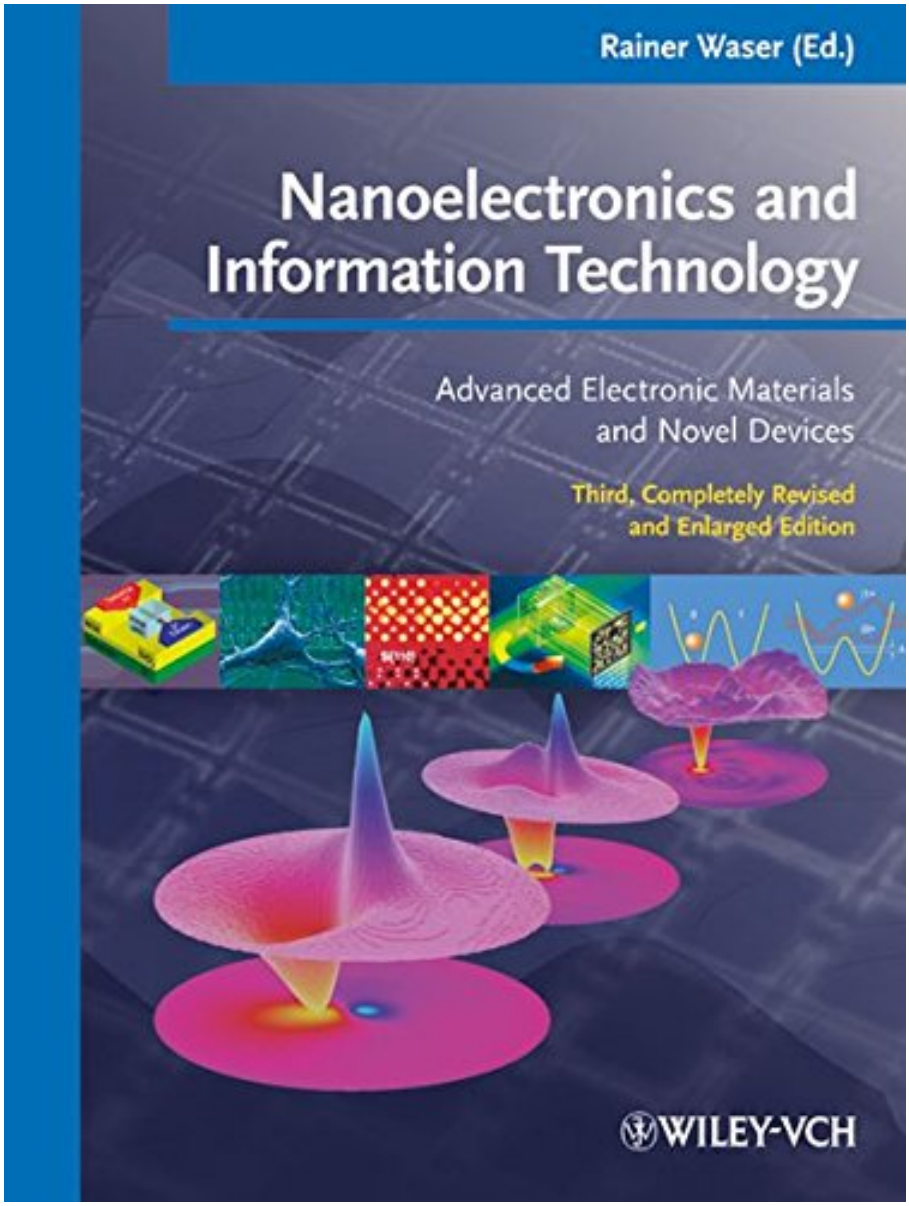

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Review

"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)

From the Back Cover

The Book:

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 for many years, despite the rapid developments in this field. There is hardly any other field where the links between basic science and application are tighter than in nanoelectronics and information technology. As an example, the design of tunneling field effect 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.

About the Author

The Editor:

Rainer Waser is Professor 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 J?lich, 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

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This outstanding textbook provides an introduction to electronic materials and device concepts for the major areas of current and future information technology. On about 1,000 pages, it collects the fundamental concepts and key technologies related to advanced electronic materials and devices. The obvious strength of the book is its encyclopedic character, providing adequate background material instead of just reviewing current trends. It focuses on the underlying principles which are illustrated by contemporary examples.

The third edition now holds 47 chapters grouped into eight sections. The first two sections are devoted to principles, materials processing and characterization methods. Following sections hold contributions to relevant materials and various devices, computational concepts, storage systems, data transmission, imaging systems and displays. Each subject area is opened by a tutorial introduction, written by the editor and giving a rich list of references. The following chapters provide a concise yet in-depth description in a given topic.

Primarily aimed at graduate students of physics, electrical engineering and information technology as well as material science, this book is equally of interest to professionals looking for a broader overview. Experts might appreciate the book for having quick access to principles as well as a source for getting insight into related fields.

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Professor Waser hits home run!
By Tom D.
This is a classic of where technology is in 2013, Very up-to-date covering most aspects of electronic technology. Contributors are chosen wisely. All writing appears to be very well edited for clarity and use of good technical English.

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