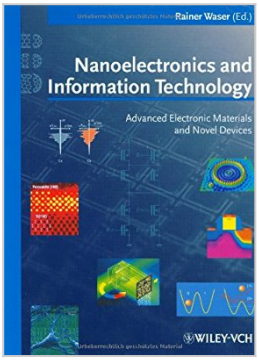

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There is hardly any field where the links between basic science and application are tighter than in nanoelectronics & information technology. As an example, the design of resonant tunneling transistors, single electron devices or molecular electronic 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)

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Editorial Review

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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,
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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,

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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).

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