

Nanoelectronics and Information Technology

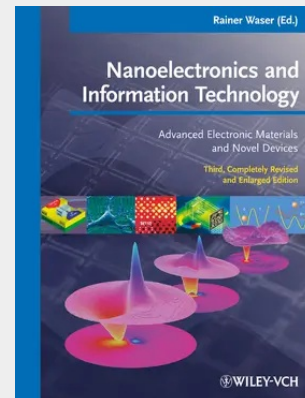
Advanced Electronic Materials and Novel Devices

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.

Fachlich auf höchstem Niveau, visuell überzeugend und durchgängig farbig illustriert: Das ist die neue Auflage der praxisbewährten Einführung in spezialisierte elektronische Materialien und Bauelemente aus der Informationstechnologie. Über ein Drittel des Inhalts ist neu, alle anderen Beiträge wurden gründlich überarbeitet und aktualisiert.



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