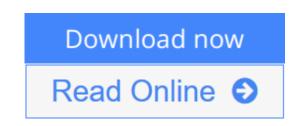


# Resistive Switching: From Fundamentals of Nanoionic Redox Processes to Memristive Device Applications

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## **Resistive Switching: From Fundamentals of Nanoionic Redox Processes to Memristive Device Applications** From Wiley-VCH

With its comprehensive coverage, this reference introduces readers to the wide topic of resistance switching, providing the knowledge, tools, and methods needed to understand, characterize and apply resistive switching memories. Starting with those materials that display resistive switching behavior, the book explains the basics of resistive switching as well as switching mechanisms and models. An in-depth discussion of memory reliability is followed by chapters on memory cell structures and architectures, while a section on logic gates rounds off the text.

An invaluable self-contained book for materials scientists, electrical engineers and physicists dealing with memory research and development.

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## **Editorial Review**

#### About the Author

Daniele Ielmini is associate professor in the Department of Electrical Engineering, Information Science and Bioengineering, Politecnico di Milano, Italy. He obtained his Ph.D. in Nuclear Engineering from Politecnico di Milano in 2000. He held visiting positions at Intel and Stanford University in 2006. His research group investigates emerging device technologies, such as phase change memory (PCM) and resistive switching memory (ReRAM) for both memory and computing applications. He has authored six book chapters, more than 200 papers published in international journals and presented at international conferences, and four patents to his name. Professor Ielmini received the Intel Outstanding Research Award in 2013 and the ERC Consolidator Grant in 2014.

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