



# Nanotechnology in a Nutshell: From Simple to Complex Systems

*Christian Ngo, Marcel van de Voorde*

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A new high-level book for professionals from Atlantis Press providing an overview of nanotechnologies now and their applications in a broad variety of fields, including information and communication technologies, environmental sciences and engineering, societal life, and medicine, with provision of customized treatments.

The book shows where nanotechnology is now - a fascinating time when the science is transitioning into complex systems with impact on new products. Present and future developments are addressed, as well as a larger number of new industrial and research opportunities deriving from this domain. An overview for professionals, researchers and policy-makers of this very rapidly expanding field. Brief chapters and colour figures with a contained overall length make the book attractive at an attractive price - a must for every professional's shelf.

Mihail C. Roco, National Science Foundation and National Nanotechnology Initiative, wrote the preface underlying the importance and weight of the present book to this exciting and epoch-awakening field of research and applications:

“Nanotechnology is well recognized as a science and technology megatrend for the beginning of the 21st century. This book aims to show where nanotechnology is now - transitioning to complex systems and fundamentally new products - and communicates the societal promise of nanotechnology to specialists and the public. Most of what has already made it into the marketplace is in the form of “First Generation” products, passive nanostructures with steady behaviour. Many companies have “Second Generation” products, active nanostructures with changing behaviour during use, and embryonic “Third Generation” products, including 3-dimensional nanosystems. Concepts for “Fourth Generation” products, including heterogeneous molecular nanosystems, are only in research.”

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