



Nanotechnology Applications to Telecommunications and Networking

By Daniel Minoli

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Be a part of the nanotechnology revolution in telecommunications

This book provides a unique and thought-provoking perspective on how nanotechnology is poised to revolutionize the telecommunications, computing, and networking industries. The author discusses emerging technologies as well as technologies under development that will lay the foundation for such innovations as:

- * Nanomaterials with novel optical, electrical, and magnetic properties
- * Faster and smaller non-silicon-based chipsets, memory, and processors
- * New-science computers based on Quantum Computing
- * Advanced microscopy and manufacturing systems
- * Faster and smaller telecom switches, including optical switches
- * Higher-speed transmission phenomena based on plasmonics and other quantum-level phenomena
- * Nanoscale MEMS: micro-electro-mechanical systems

The author of this cutting-edge publication has played a role in the development of actual nanotechnology-based communication systems. In this book, he examines a broad range of the science of nanotechnology and how this field will affect every facet of the telecommunications and computing industries, in both the near and far term, including:

- * Basic concepts of nanotechnology and its applications
- * Essential physics and chemistry underlying nanotechnology science
- * Nanotubes, nanomaterials, and nanomaterial processing
- * Promising applications in nanophotonics, including nanocrystals and nanocrystal fibers
- * Nanoelectronics, including metal nanoclusters, semiconducting nanoclusters, nanocrystals, nanowires, and quantum dots

This book is written for telecommunications professionals, researchers, and students who need to discover and exploit emerging revenue-generating opportunities to develop the next generation of nanoscale telecommunications and network systems. Non-scientists will find the treatment completely

accessible. A detailed glossary clarifies unfamiliar terms and concepts. Appendices are provided for readers who want to delve further into the hard-core science, including nanoinstrumentation and quantum computing.

Nanotechnology is the next industrial revolution, and the telecommunications industry will be radically transformed by it in a few years. This is the publication that readers need to understand how that transformation will happen, the science behind it, and how they can be a part of it.

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Editorial Review

Review

"For scientists and researchers interested in learning the technical aspects of nanotechnology, this book will be a preferred choice." (*IEEE Circuits & Devices Magazine*, September/October 2006)

"...provides a thought-provoking perspective on how nanotechnology is poised to revolutionize the telecommunications, computing, and networking industries." (*IEEE Computer*, January 2006)

From the Back Cover

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About the Author

DANIEL MINOLI has many years' experience providing telecommunications, networking, and IT architecture guidance and solutions for such organizations as the Advanced Research Projects Agency (ARPA), Bell Telephone Laboratories, ITT, Prudential Securities, Bell Communications Research (Bellcore/Telcordia), AT&T, New York University, Rutgers University, Stevens Institute of Technology, and Société Générale de Financement du Québec. An author of many technical references on information technology, telecommunications, and data communications, he has written columns for ComputerWorld, NetworkWorld, and Network Computing.

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Donna Gray:

This Nanotechnology Applications to Telecommunications and Networking book is absolutely not ordinary book, you have after that it the world is in your hands. The benefit you get by reading this book is usually information inside this guide incredible fresh, you will get information which is getting deeper an individual read a lot of information you will get. This particular Nanotechnology Applications to Telecommunications and Networking without we recognize teach the one who reading through it become critical in thinking and analyzing. Don't become worry Nanotechnology Applications to Telecommunications and Networking can bring if you are and not make your carrier space or bookshelves' turn into full because you can have it with your lovely laptop even cellphone. This Nanotechnology Applications to Telecommunications and Networking having good arrangement in word as well as layout, so you will not really feel uninterested in reading.

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