



Nanomaterials, Nanotechnologies and Design: An Introduction for Engineers and Architects

By Daniel L. Schodek, Paulo Ferreira, Michael F. Ashby

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How could nanotechnology not perk the interest of any designer, engineer or architect? Exploring the intriguing new approaches to design that nanotechnologies offer, *Nanomaterials, Nanotechnologies and Design* is set against the sometimes fantastic sounding potential of this technology. Nanotechnology offers product engineers, designers, architects and consumers a vastly enhanced palette of materials and properties, ranging from the profound to the superficial. It is for engineering and design students and professionals who need to understand enough about the subject to apply it with real meaning to their own work.

- * World-renowned author team address the hot-topic of nanotechnology
- * The first book to address and explore the impacts and opportunities of nanotech for mainstream designers, engineers and architects
- * Full colour production and excellent design: guaranteed to appeal to everyone concerned with good design and the use of new materials

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Editorial Review

From the Back Cover

How could nanotechnology not perk the interest of any designer, engineer or architect? Exploring the intriguing new approaches to design that nanotechnologies offer, *Nanomaterials and Design* is set against the sometimes fantastic sounding potential of this technology. It is for engineering and design students and professionals who need to understand enough about the subject to apply it with real meaning to their own work.

- Clearly and simply introduces non-specialists to the basic material science terminology and principles that form the foundation for understanding materials in general, and nanomaterials in particular
- This understanding will allow designers to communicate better with material scientists in the development of applications, and will enable better informed material selection
- Richly illustrated with inspiring case studies and design examples to bring the full creative opportunities of nanotechnology to life
- Explores the general processes used in product design, architecture, and engineering to create new products and environments, particularly in relation to the use of new materials
- Looks in detail at how nanomaterials might be effectively used in the development of new products.
- Summarizes industry trends and broader contextual issues

The clear potential of nanomaterials is now being realized in many design fields. Exploring their technical, performance, aesthetic and consumer functions, *Nanomaterials and Design* considers the role of nanomaterials and in design, and shows how their properties, processing and attributes will have profound impacts on the design, production and use of many materials, components, products and buildings.

About the Author

Royal Society Research Professor Emeritus at Cambridge University and Former Visiting Professor of Design at the Royal College of Art, London, UK

Mike Ashby is sole or lead author of several of Elsevier's top selling engineering textbooks, including *Materials and Design: The Art and Science of Material Selection in Product Design*, *Materials Selection in Mechanical Design*, *Materials and the Environment*, and *Materials: Engineering, Science, Processing and Design*. He is also coauthor of the books *Engineering Materials 1&2*, and *Nanomaterials, Nanotechnologies and Design*.

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