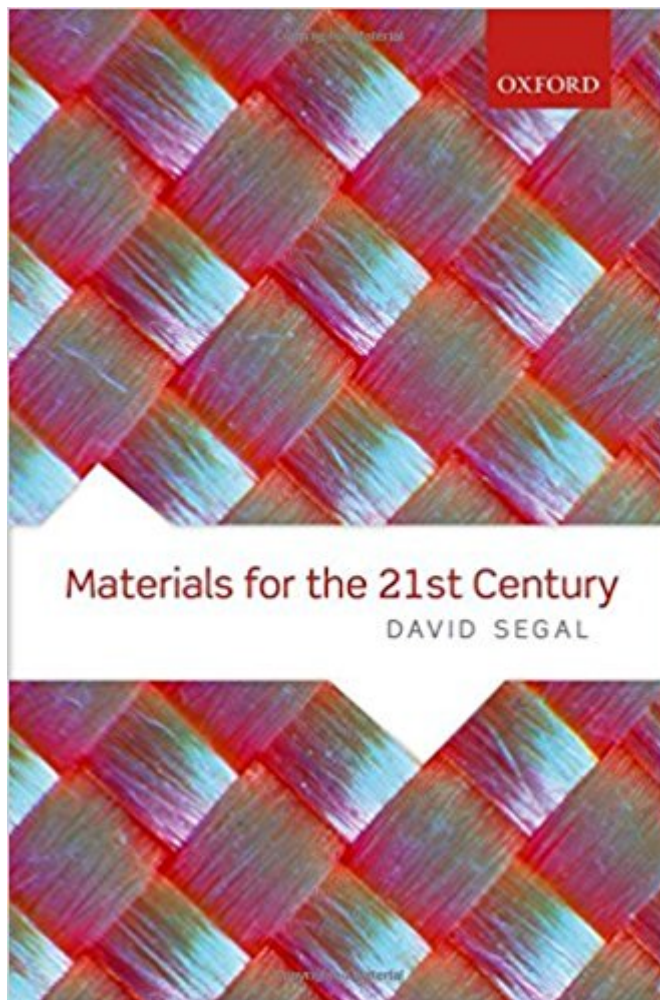


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# Materials For The 21st Century



## Synopsis

What does cotton candy, which dissolves at the touch, have in common with Kevlar, used for bullet-proof vests? How can our understanding of such materials help us to tackle essential problems of the 21st century? Materials play a key role in our search for solutions to many pressing issues. They underpin many industries, are critical for the development of consumer goods, are essential components of medical diagnostic techniques, offer hope for the treatment of currently incurable diseases, and provide answers to environmental problems. This handbook is a guide to the materials we rely on for the future. *Materials for the 21st Century* serves as a useful resource for undergraduate and high school students preparing for a career in physical sciences, life sciences, or engineering, by helping them to identify new areas of interest. It is also an excellent reference for readers interested in learning more about the diverse range of materials that underlie key aspects of our economy and everyday lives.

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"Segal offers a refreshing and unifying overview of modern materials, including the latest nano-materials, nicely combining chemistry and solid-state physics and effectively bringing in patent literature. The wide-ranging extended Glossary, containing substantial paragraph-length entries with references, seems particularly valuable." --Ed Wolf, New York University Tandon School of Engineering  
"The book is well structured and written, covers a variety of interesting topics and has a fantastic glossary. The entries include references to the literature that enable the interested reader to find pertinent reading material that will encourage their voyage of discovery into the field."

The book should be an accessible and useful reference for high school students, undergraduates, postgraduates, academics and industrialists." --John G. Hardy, Lancaster University, UK

David Segal David Segal is an author or co-author of over forty scientific papers and an inventor or co-inventor of over twenty-five patent families. He has worked for the UK Atomic Energy Authority at the Harwell Laboratory and Collier IP Management. He earned his Ph.D. on foaming in lubricating oils at Bristol University, and carried out post-doctoral work at Brunel University on the surface chemistry of copper phthalocyanine pigments.

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