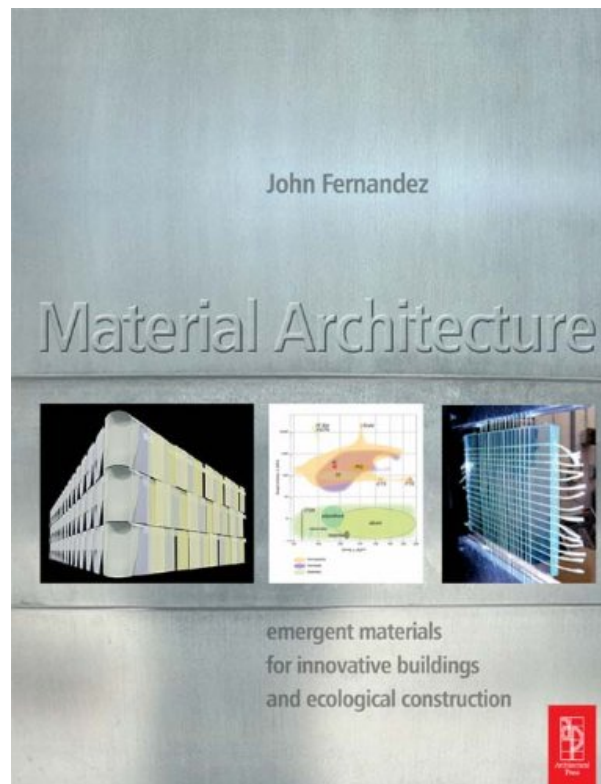


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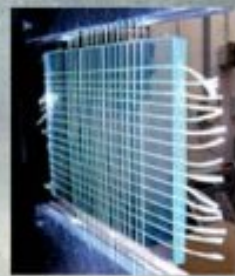
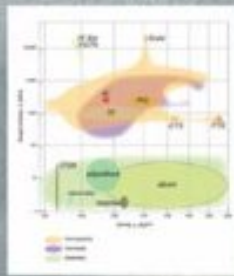
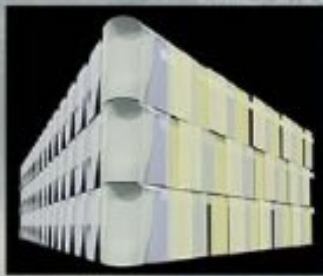


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Composed of a series of essays, this book deals with the broad issues affecting the nature of architectural materials and provides a focused review of the state of the art materials. It also provides designers with the tools they need to evaluate and select from the thousands of different materials that are available to them. The book is organized into three sections; 'Time' looks at how the materials used in architectural design have changed over the years showing how we have come to use the materials we do in contemporary design. 'Materials' covers all five material families; metals, polymers, ceramics, composites and natural materials giving in depth information on their properties, behavior, origins and uses in design. It also introduces a review of the cutting edge research for each family. 'Systems' outlines the technical design-orientated research that uncovers how new architectural assemblies can be designed and engineered. All of this practical advice is given along with many real case examples illustrating how this knowledge and information has been, and can be, used in architectural design.

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Excellent resource for architectural materials

By Joongwon Lee

Materials are on the stage again. We see buildings that are using emergent materials creating cutting-edge walls.

For instance, aquatics center

for recent Beijing Olympics wowed public and professionals alike.

The wow effect was a direct result of using Teflon. Building professionals are asked by friends what that transparent film is. Yet, not many can answer it offhand. This book, by Prof. Fernandez can cure that. The book will tell the reader ETFE (Teflon) falls under thermoset of synthetic polymers, how it was invented, what are its characteristics and potentials.

The book covers many diverse issues in a very smart way. The book begins by introducing how knowledge has been produced and distributed since the industrial revolution and how emerging industrial ecology discipline influences the invention, selection, and assembly of materials.

Then the body of the book provides taxonomic analysis of materials.

Basically they are divided into five material families; Metals, Polymers, Ceramics, Composites, and Biomaterials and Loam. Each section provides brief history, physical properties, behavior patterns, current usage and potentials in the industry.

When a book becomes taxonomic, especially with the jargons of chemistry and physics, it could easily become dull and flat. Fernandez is well aware of that danger, so he very diligently at the right time of reading pulls the reader into actual applications and design potentials. Personally, the book was extremely helpful. Unlike most architectural material books out there that is mainly focused on the trendy effects of skin play, this book probes diligently and thoroughly bridging diverse disciplines.

Two thumbs up for his extensive bibliography. Ample websites are also provided for further research. Building Science book put together by a first-class minded designer. What a book!

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