



Materials Experience: Fundamentals of Materials and Design

From Butterworth-Heinemann



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There currently exists an abundance of materials selection advice for designers suited to solving technical product requirements. In contrast, a stark gap can be found in current literature that articulates the very real personal, social, cultural and economic connections between materials and the design of the material world. *In Materials Experience: fundamentals of materials and design*, thirty-four of the leading academicians and experts, alongside 8 professional designers, have come together for the first time to offer their expertise and insights on a number of topics common to materials and product design. The result is a very readable and varied panorama on the world of materials and product design as it currently stands.

- Contributions by many of the most prominent materials experts and designers in the field today, with a foreword by Mike Ashby
- The book is organized into 4 main themes: sustainability, user interaction, technology and selection
- Between chapters, you will find the results of interviews conducted with internationally known designers. These ‘designer perspectives’ will provide a ‘time out’ from the academic articles, with emphasis placed on fascinating insights, product examples and visuals

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Bibliography

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Editorial Review

Review

"...an excellent introduction to a composition that reflects the fundamentals for turning a design idea into a materialized outcome...I recommend this book to those interested in materials design, from those entering the field to professional researchers." --**MRS Bulletin, February 2015**

"Product designers offer advice to colleagues on selecting materials, considering not only the complex ways in which materials influence how products are embodied and function, but also how the materials affect people's experiences of the products and the complexity of decision making about materials that designers face." --**ProtoView.com, April 2014**

"When the design focus shifts from 'products' to 'interactions', materials must be considered (also) as 'experience'. This book is a very useful contribution to attend to the experiential side of materials." --**Ezio Manzini**

From the Back Cover

So much has been achieved and discussed in the materials and design domain in the last decade; some of which has found its place in design practice and design education, whilst soem has yet to come to the fore and remains at a level of noteworthy points to be considered for the future of our societies and material possessions. This book presents a panorama of completed works and on-going discussions that are shaping, or are predicted to shape, our materiality, the selection of materials for products, and our understanding and appreciation of product materials. Presently we are witnessing the birth of a new body of knowledge termed 'materials experience', which systematically explores not only how people react to the varied physical material properties of things, but also to the diverse expertise that designers must possess if they are to positively influence people's material reactions.

About the Author

Dr. Karana is currently assistant professor in the department of Design Engineering at Delft University of Technology in The Netherlands and holds a Ph.D. in Industrial Design Engineering. She has presented her research at a number of international conferences and has run various workshops on the 'meanings of materials'. Dr. Karana is one of the founders of the Natural Fibre Composites (NFC) Design Platform in The Netherlands. Her current research and education interests include teaching materials in design and designing and manufacturing with bio-based materials. She is the developer and the coordinator of the Materials Library: Made Of.. at the Faculty of Industrial Design Engineering, TU Delft.

Dr. Pedgley is associate professor of industrial design at Middle East Technical University in Ankara, Turkey. He teaches courses in materials and design and is actively involved in three areas of research: materials and manufacturing for industrial design, designing interactions between people and things, and methods of conducting academic research through designing artefacts. he holds a Ph.D. in Industrial Design from Loughborough University, UK.

Dr. Rognoli teaches courses in product development and materials for design within the department of Chemistry, Materials and Chemical Engineering at Politecnico di Milano in Italy. Her current research

interests include materials and design, expressivity and sensorality in materials for design, emotional design, design and neurosciences, and biomimicry.

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