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Material Design



Synopsis

The approach of "Informing Architecture by Materiality" opens the way to an innovative use of materials in the design professions. Taking material qualities and properties such as texture, elasticity, transparency and fluidity as a point of departure, the concept described and employed here transcends the conventional definitions of building materials. Instead, the focus is on a multitude of material operations, like folding and bending, carving and cutting, weaving and knitting, mirroring and screening. The featured design strategies and methods address established and "new" materials alike. They are applied both to the scale of the detail and the entire building. The examples comprise prototype structures as well as large building projects. Eight chapters deal with surfaces and layers, joints and junctions, weaving and texturing, nanoscale transformations, responsiveness, the integration of ephemeral factors like wind and light as well as material collections providing professional resources. Written by renowned experts in this field, the book features many examples from international contemporary architecture. The introductory part provides the conceptual background, while a final chapter describes consequences for pressing issues of today, like sustainability or life cycle assessment.

Book Information

Hardcover: 192 pages

Publisher: Birkh user Architecture; 1 edition (October 26, 2010)

Language: English

ISBN-10: 3034600356

ISBN-13: 978-3034600354

Product Dimensions: 9.3 x 0.9 x 12 inches

Shipping Weight: 2.6 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars   See all reviews   (3 customer reviews)

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#2223 in   Books > Arts & Photography > Architecture > Interior Design

Customer Reviews

Material design is an engaging book that is inspiring and informative. Shropfer has a wonderful insight into this topic. Each chapter has case studies that showcase the title topic. It shows the strength of the bond between technology, research, and design, which when used symbiotically

create an atmosphere for progress.

Great book for understanding materials innovation and the use of traditional materials in Architecture, something Architects need to take on account on project innovation.

Wonderful book! I would buy it again if I ever lost it. It's got six different points of view on materials. Some are great.

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