

The New Structuralism

Design, Engineering and Architectural Technologies

Today the convergence of design, engineering and architectural technologies are breeding a new material practice in experimental architecture. In this pioneering publication, this important shift is fully defined as a highly dynamic synthesis of emerging principles of spatial, structural and material ordering integrated through the application of materialization and fabrication technologies. Providing the foundations for a new theory of structuring in architecture, The New Structuralism has broad implications for the way we both conceive and undertake architectural design, as its impact starts to emanate not only across education internationally, but also through architectural research and practice. Features premier research and design-oriented engineering practices: Bollinger + Grohmann Büro Happold Hanif Kara (AKT) Werner Sobek Focuses on design and fabrication technologies in the recent work of: Martin Bechthold Barkow Leibinger EMBT (Enric Miralles, Benedetta Tagliabue) Gramazio & Kohler Fabian Scheurer (designtoproduction) Yves Weinand and Markus Hudert Contributors include: John Chilton Dominik Holzer and Steven Downing Neri Oxman Helmut Pottmann Nina Rappaport

The New Structuralism: Design, Engineering and Architectural Technologies Guest-edited by Rivka Oxman and Robert Oxman Today the convergence of design, engineering and architectural technologies is breeding a new material practice in experimental architecture. The significant emphasis on the structuring logic of tectonics is resulting in a 'new structuralism' in design. In this pioneering publication, this important shift is fully defined as a highly dynamic synthesis of emerging principles of spatial, structural and material ordering integrated through the application of materialisation and fabrication technologies. Providing the foundations for a new theory of structuring in architecture, the new structuralism has broad implications for the way we both conceive and undertake architectural design, as its impact starts to emanate not only across education internationally, but also through architectural research and practice. Features premier research and design-oriented engineering practices: Bollinger + Grohmann Büro Happold Hanif Kara (AKT) Werner Sobek Focuses on design and fabrication technologies in the recent work of: Martin Bechthold Barkow Leibinger EMBT (Enric Miralles, Benedetta Tagliabue) Gramazio & Kohler Fabian Scheurer (designtoproduction) Yves Weinand and Markus Hudert Contributors include: John Chilton Dominik Holzer and Steven Downing Neri Oxman Helmut Pottmann Nina Rappaport The New Structuralism: Design, Engineering and Architectural Technologies July/August 2010 Profile No 206



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