

The New Structuralism. Design, Engineering and Architectural Technologies. Architectural Design

Description: 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

Buro 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

Contents: Editorial (Helen Castle).

About the Guest-Editors (Rivka Oxman and Robert Oxman).

Spotlight: Visual highlights of the issue.

Introduction.

The New Structuralism: Design, Engineering and Architectural Technologies (Rivka Oxman and Robert Oxman).

Radical Sources of Design Engineering (Werner Sobek).

The renowned proponent of ultra- lightweight structures charts how his consultancy has developed a far-reaching approach to practice.

Structured Becoming: Evolutionary Processes in Design Engineering (Klaus Bollinger, Manfred Grohmann and Oliver Tessmann).

Structuring Strategies for Complex Geometries (Wolf Mangelsdorf).

On Design Engineering (Hanif Kara).

Innovative design-led engineer Hanif Kara advocates a holistic approach to architecture and engineering.

Weaving Architecture: Structuring the Spanish Pavilion, Expo 2010, Shanghai (Julio Martínez Calzón and Carlos Castañón Jiménez).

Optioneering: A New Basis for Engagement Between Architects and their Collaborators (Dominik Holzer and Steven Downing).

Heinz Isler's Infinite Spectrum: Form-Finding in Design (John Chilton).

Architectural Geometry as Design Knowledge (Helmut Pottmann).

Structuring Materiality: Design Fabrication of Heterogeneous Materials (Neri Oxman).

Materialising Complexity (Fabian Scheurer).

Fabricating Design: A Revolution of Choice (Frank Barkow).

Timberfabric: Applying Textile Principles on a Building Scale (Yves Weinand and Markus Hudert).

Encoding Material (Fabio Gramazio, Matthias Kohler and Silvan Oesterle).

The Return of the Future: A Second Go at Robotic Construction (Martin Bechthold).

Bechthold examines the recent revival in robotic technologies in construction.

A Deeper Structural Theory (Nina Rappaport).

Counterpoint.


Digital Solipsism and the Paradox of the Great 'Forgetting' (Neil Spiller).

Ordering: Order Online - <http://www.researchandmarkets.com/reports/1405878/>

Order by Fax - using the form below

Order by Post - print the order form below and send to

Research and Markets,
Guinness Centre,
Taylors Lane,
Dublin 8,
Ireland.



Fax Order Form

To place an order via fax simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions please visit

<http://www.researchandmarkets.com/contact/>

Order Information

Please verify that the product information is correct.

Product Name: The New Structuralism. Design, Engineering and Architectural Technologies.
Architectural Design
Web Address: <http://www.researchandmarkets.com/reports/1405878/>
Office Code: SCUUGR4T

Product Format

Please select the product format and quantity you require:

Quantity
Hard Copy (Paper back): EUR 33 + EUR 25 Shipping/Handling

* Shipping/Handling is only charged once per order.

Contact Information

Please enter all the information below in **BLOCK CAPITALS**

Title: Mr Mrs Dr Miss Ms Prof

First Name: _____ Last Name: _____

Email Address: * _____

Job Title: _____

Organisation: _____

Address: _____

City: _____

Postal / Zip Code: _____

Country: _____

Phone Number: _____

Fax Number: _____

* Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)

Payment Information

Please indicate the payment method you would like to use by selecting the appropriate box.

- Pay by credit card:
 - American Express
 - Diners Club
 - Master Card
 - Visa

Cardholder's Name _____

Cardholder's Signature _____

Expiry Date _____ | _____

Card Number _____

CVW Number _____

Issue Date _____ | _____

(for Diners Club only)

- Pay by check:

Please post the check, accompanied by this form, to:

Research and Markets,
Guinness Center,
Taylors Lane,
Dublin 8,
Ireland.

- Pay by wire transfer:

Please transfer funds to:

Account number	833 130 83
Sort code	98-53-30
Swift code	ULSBIE2D
IBAN number	IE78ULSB98533083313083
Bank Address	Ulster Bank, 27-35 Main Street, Blackrock, Co. Dublin, Ireland.

If you have a Marketing Code please enter it below:

Marketing Code: _____

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at <http://www.researchandmarkets.com/info/terms.asp>

Please fax this form to:
(646) 607-1907 or (646) 964-6609 - From USA
+353-1-481-1716 or +353-1-653-1571 - From Rest of World