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Descrizione fisica	1 online resource (504 p.)
Collana	Modern Construction Series
Classificazione	ZI 3500
Disciplina	504
Soggetti	Building
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front matter -- CONTENTS -- Introduction -- Introduction to third edition -- Structure and envelope -- Parametric design -- Materials -- Tectonics in metal -- Steel -- Copper, zinc and lead -- Tectonics in glass -- Glass -- Tectonics in concrete -- Concrete -- Tectonics in masonry -- Masonry -- Concrete block -- Stone -- Brick -- Tectonics in plastics -- Plastics and composites -- Tectonics in timber -- Timber -- Fabrics and membranes -- Materials for interior finishes -- Performance testing of facade material systems -- Performance testing of roof material systems -- Walls -- Trends in facade design -- Generic wall types -- Metal -- Glass systems -- Concrete -- Masonry loadbearing walls -- Masonry cavity walls -- Masonry cladding -- Masonry rainscreens -- Plastic -- Timber -- Roofs -- Trends in roof design -- Metal roofs -- Glass roofs -- Concrete -- Timber roofs -- Plastic roofs -- Fabric systems -- Structure -- Material systems for structures -- Elements of structures -- Braced frames -- Portal frames -- Loadbearing boxes -- Trusses -- Arches and shells -- Space grids -- Floor structures -- Stairs -- ENVIRONMENT -- Environmental studies for envelopes -- Analysis for design -- Low energy material systems -- Active design -- Support services -- APPLICATIONS -- 1 Working with industry -- 2 Triangular panels for twisted facades -- 3 Twisted panels with flat glass for curved facades -- 4 Solar Shading Louvres -- 5 Double-skin facades -- 6 Precast concrete panels for facades of complex geometry -- 7 Exoskeleton facades of complex geometry -- 8 Diagrid Structure -- 9 Hybrid systems forming facades

of complex geometry -- 10 Opaque cladding interface with full-height glazing -- 11 Complex curved glazed roofs -- 12 Large-scale glazed facades -- 13 Panelisation of complex building surface geometry -- 14 Opaque rainscreen cladding -- 15 Full-height glazing with GRP-clad structural frame -- 16 GRC cladding interfaces -- 17 Full-height entrance glazing -- 18 GRP louvres on stick glazing system -- 19 GRC cladding -- 20 Windows in GRC cladding -- 21 Windows and unitised glazing with GRC cladding -- 22 Unitised glazing with GRC cladding -- 23 Complex glazed roofs with supporting steel structure -- 24 Glazed roofs with complex geometry -- 25 Louvres and stick glazing -- 26 Tiled cladding -- 27 Rainscreens -- REFERENCES -- Glossary of terms -- Authorship & photo credits -- Photo credits -- Index -- Backmatter

Sommario/riassunto

The Modern Construction Handbook has become a building construction classic and is used as a textbook in many courses. Its systematic approach with chapters on materials, walls, roofs, construction and environment offers clear and efficient orientation. Digital fabrication techniques are included as well (complementing traditional production processes) and presented in an instructional book for the first time. The third edition has been thoroughly updated and now provides: More information - more annotation of drawings, more text on the page. Updated 'future' chapter with more emerging construction techniques. Updated essays on construction in the introduction Chapter 1. More technical data in the 'Materials' Chapter. The content in this third edition has been completely reworked which makes it an even more valuable companion for students and young practitioners!
