

in DETAIL

Building Skins

Concepts

Layers

Materials

Christian Schittich (Ed.)

Birkhäuser
Edition Detail

Building Skins Concepts Layers Materials

Piet Lombaerde



Building Skins Concepts Layers Materials:

Building Skins Christian Schittich, 2001 The external facades of a building are more than a protective mantle or an intelligent skin regulating temperature and light they also determine its very appearance By unusual choices of materials and the use of complex technology facades have become increasingly significant in recent years External surfaces are being perceived as an integral part of the building and are therefore being designed as such This volume focuses on the wide ranging aspects of facade design from the selection and use of materials to the advanced technical possibilities now open to the architect A wide array of carefully selected international examples show the theory in the practice All plans details and large scale sections of the facades have been researched with the high degree of competence typical of the editorial staff from the review Detail Expert authors provide the essential information needed to plan and design facades and elucidate on the latest developments in technology and materials , *Skins, Envelopes, and Enclosures* Mayine Yu, 2013-08-22

Integrate the best building envelope construction methods materials science and structural principles in your work using this book as a resource to help you With more than seventy significant case studies located in North America South America Europe and Asia from prehistory to the present this book illuminates the theory and techniques of assembling exteriors Six chapters organized by wall types from hand set monolithic walls to digitally fabricated curtain walls each have a material focus section to help you understand their intrinsic properties so that you can decide which will best keep the weather out of your building Examples from the ancient world including the Pyramids and the Great Wall through a range of renowned modern architects such as Studio Gang Sauerbruch Hutton Herzog and deMeuron and Rafael Moneo illustrate how significant works in the history of architecture explored innovative use of materials stone brick concrete glass and aluminium Along the way principles of construction from masonry and basic framing through ever more sophisticated envelope systems address classic problems presented by gravity wind rain and sun with studies of lateral forces building movements and materials that bridge the gaps in between them *Bringing the World Into Culture* Piet Lombaerde, 2010 This book is published on the occasion of the emeritus status awarded to Professor Richard Foque in arch MSc His successful career as founder and partner of an architect firm professor in design theory and Head of the Department of Design Science has provided opportunities to meet colleagues both at home and abroad **Building Systems Integration for Enhanced**

Environmental Performance Shahin Vassigh, Jason R. Chandler, 2011 Looks at the issues of sustainability and environmental impact in the field of building design and architecture This book addresses sustainability in building design through development of a series of examples presented as three dimensional models of well integrated building systems

Building Envelopes Jenny Lovel, 2013-07-02 Few parts of a building work harder than its envelope also known as its facade The envelope is the part of the building most visible from the outside so it should be visually appealing but it can also have the biggest effect on the well being and safety of its occupants so the envelope should be help heat and cool the

building allow light into it and provide necessary structure Too often a building s envelope is more aesthetically striking than functional or vice versa A great building envelope though architecturally integrates all of its elements

Façades Ulrich Knaack,Tillmann Klein,Marcel Bilow,Thomas Auer,2014-09-05 Introduction to building fa ades as revised edition Fa ades determine the appearance of a building Hence they constitute a major element in architecture At the same time the building s envelope has important functions to fulfil such as lighting weatherproofing thermal insulation load transfer and sound insulation Over the past 15 years fa ades have become increasingly complex intelligent facades for instance adapt to changing climate and lighting conditions Newly developed materials and technologies have broadened the scope of fa ade functions This book demonstrates the principles of fa ade construction It systematically describes the most common types such as post and beam fa ade curtain wall corridor fa ade or double fa ade and provides guidelines for appropriate detailing Numerous drawings made especially for the book explain the principles of different types of facades which are then illustrated with built examples For this second edition all chapters were revised and all four examples in the case studies chapter were replaced by new material The new chapter Future Fa ades offers insights into what s next

Building Physics of the Envelope Ulrich Knaack,Eddie Koenders,2018-05-07 Die Fassade ist die Schnittstelle des Geb udes mit seiner Umwelt Dort treffen bauphysikalische Parameter wie W rme Feuchte Schall und Licht auf das Haus und wirken auf es ein Alle diese Einfl sse bed rfen der Regulierung durch die Geb udeh lle um Behaglichkeit f r den Nutzer und Funktionst chtigkeit der Architektur zu gew hrleisten Diese Einf hrung erl utert die wichtigsten Ph nomene um dann den Bezug zur Baupraxis herzustellen Welche Materialien reagieren in welcher Weise auf diese Faktoren Wie gehen Fassadensystemen mit W rme Feuchte Schall und Licht um Das praxisorientierte Buch entstanden aus der Zusammenarbeit eines Architekten und eines Bauingenieurs beschreibt die wichtigsten Fassadenmaterialien und konstruktionen im Hinblick auf ihre bauphysikalische Performance

Design-Tech Thomas Leslie,Rob Whitehead,2014-03-21 Design Tech is an indispensable holistic approach to architectural technology that shows you in hundreds of drawings and tables the why as well as the how of building science providing you with a comprehensive overview In this expanded edition measurements and examples are listed in both metric and imperial units to reflect the global reality of architectural practice The authors also address digital fabrication construction documentation ultra high rise structures and zoning codes And there s more in depth coverage of structural design and greater emphasis on environmental forces Numerous case studies demonstrate real world design implications for each topic so that you can integrate technical material with design sensibilities Short chapters explain each topic from first principles in easy to reference formats focusing on what you need to know both at the drawing board and in future discussions with engineers contractors and consultants This new edition incorporates material from continuing curricular experimentation in the SCI TECH sequence at Iowa State University which has been recognized with awards and funding from the American Institute of Architects the U S Green Building Council and the National Council of Architectural

Registration Boards **Design-Tech: Building Science for Architects** Jason Alread, Thomas Leslie, Rob Whitehead, 2025-03-19

The third edition of Design Tech provides an indispensable holistic resource for integrating building technologies into critically designed performance based architectural projects. The book's format follows the developmental stages of a typical architectural project; it provides a step by step process for addressing and integrating building sciences from first principles of human comfort, materials, structures, and environmental systems to advanced construction systems and measures of building performance. Short chapters incorporate easy to understand information with hundreds of useful illustrations, tables, and references that explain the why as well as the how of building science. The content focuses on what designers need to know in the studio to create sustainably designed integrated buildings and it prepares them for future discussions with engineers, contractors, and consultants. The updated format builds a coherent framework for integrated project design studio development necessary for all contemporary accredited schools of architecture. Chapters build upon critical project information from schematics toward technical integration. New chapters emphasize performance based design strategies including sustainable design values, critical schematic planning, enhanced building envelope design strategies, and advanced performance systems. Enhanced visualization of schematic design strategies helps explain sustainable design standards, code compliance, and structural schematics, and throughout the third edition focuses on contemporary issues such as embodied carbon, heavy timber construction, life cycle costs, and long term performance. This will be a must read for all architecture students looking for an accessible guide to building science.

Unveiling the Power of Verbal Beauty: An Psychological Sojourn through **Building Skins Concepts Layers Materials**

In a global inundated with monitors and the cacophony of quick connection, the profound energy and mental resonance of verbal beauty usually fade in to obscurity, eclipsed by the continuous barrage of noise and distractions. Yet, set within the lyrical pages of **Building Skins Concepts Layers Materials**, a fascinating work of fictional elegance that pulses with raw thoughts, lies an wonderful journey waiting to be embarked upon. Published by way of a virtuoso wordsmith, this mesmerizing opus guides visitors on a psychological odyssey, lightly exposing the latent possible and profound affect embedded within the intricate internet of language. Within the heart-wrenching expanse of this evocative examination, we will embark upon an introspective exploration of the book is central themes, dissect its fascinating publishing style, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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