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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.

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TEXT #1 : Introduction In Detail Building Skins Concepts Layers Materials In Detail Englisch By Richard Scarry - Jun 21, 2020 ~ Free Reading In Detail Building Skins Concepts Layers Materials In Detail Englisch ~, supported by clean detail drawings there are ample examples of building skins

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The exterior of a building is largely the visible mark of a structure. It links outer and inner spaces, protects against the effects of weather, and certainly promotes lowering of a building's energy needs. More than ever, the exterior is becoming the testing ground for novel applications of new materials - e...

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There was a time when there was no question as to what the outside skin of a building was going to be, glass alternating with metal panels. Something monolithic looking like the UN building. Now significant advances in materials, architectural design, creative use of conventional materials like shingles, concrete, or sprayed on foam are producing building where the skin becomes more than just what you see.

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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.

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.

This comprehensive text provides a thorough overview of sustainable methods for site, residential and commercial building construction, covering both traditional and contemporary materials, current industry standards and new and emerging technologies. Organized according to the Construction Specifications Institute (CSI) MasterFormat standards, the text follows a logical structure that charts the sequence of construction step-by-step from project inception to completion. Readers will find ample, up-to-date information on the latest industry advances and best practices, as well as relevant building codes, all within a dynamic, reader-friendly new design. This proven text can help your students gain a clear understanding of today's construction materials, methods and techniques, providing a critical foundation for career success. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This book is published on the occasion of the emeritus status awarded to Professor Richard Foque, ir. 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. No less than twenty-two colleagues were more than pleased to write a personal contribution in the framework of their own field of expertise, to explore the boundaries between art and science, knowledge and research, theory and practice, representation and reality. Thus, the Liber Amicorum became a "book of friends" linking the evolution in science to an unheard of self-expression in architecture, product development and culture. Dit boek wordt uitgegeven ter gelegenheid van het emeritaat van prof. ir.arch. Richard Foque. Zijn rijke loopbaan als manager van een architectenbureau, professor in de ontwerptheorie en departementshoofd heeft geleid tot talrijke ontmoetingen met collega's in binnen- en buitenland. Tweentwintig ervan werden bereid gevonden om vanuit hun eigen kennis- en beroepsveld een persoonlijke bijdrage te schrijven, die de grenzen tussen kunst en wetenschap, kennis en praktijk, voorstelling en werkelijkheid, beleid en werkelijkheid zouden aftasten. Zo groeide het Liber Amicorum uit tot een volwaardig boek, waarin de actuele evolutie in de wetenschap in relatie wordt gebracht met een nooit tevoren gekende zelfexpressie in architectuur, productontwikkeling en cultuur.

Introduction to building fa\u00e7ades as revised edition Fa\u00e7ades 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\u00e7ades have become increasingly complex - 'intelligent' fa\u00e7ades, for instance, adapt to changing climate and lighting conditions. Newly developed materials and technologies have broadened the scope of fa\u00e7ade functions. This book demonstrates the principles of fa\u00e7ade construction. It systematically describes the most common types, such as post-and-beam fa\u00e7ade, curtain wall, corridor fa\u00e7ade or double fa\u00e7ade, and provides guidelines for appropriate detailing. Numerous drawings made especially for the book explain the principles of different types of fa\u00e7ades, 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\u00e7ades" offers insights into what's next.

Visually enriched with over 250 photographs and drawings, Bioclimatic Double-Skin Fa\u00e7ades is an essential reference guide for understanding the types and functions of double-skin fa\u00e7ades. Author Mary Ben Bonham examines the history and continuing potential of double-skin architecture, informing on the variety of approaches possible and advising a rigorous integrated design process leading to application. Featuring a wide selection of architectural examples, the book will be of interest to professionals and students within the fields of architecture, engineering, and construction. Characterized by a buffer-like air space between two glazed building skins, double-skin windows and fa\u00e7ades aim to improve building comfort and energy performance. Double skins introduce complexity and initial costs, yet significant buildings in locations around the globe continue to select this approach. In addition to exploring motivations, benefits, and cautions for designing with double skins, the book provides a primer on fundamental fa\u00e7ade design concepts and strategies for control of thermal, luminous, and acoustic environments. Chapters also address alternative types of high-performance fa\u00e7ades and implications for each phase of fa\u00e7ade design and construction. Bioclimatic Double-Skin Fa\u00e7ades promotes bioclimatic design that is inspired by nature, measured in performance, and uniquely adapted to climate and place. In-depth case studies illustrate how double-skin fa\u00e7ades have been adapted to a range of climates and cultural settings: Marseille Library and Grenoble Courthouse in France, Cambridge Public Library in Massachusetts, Manitoba Hydro Place in Canada, and the Pearl River Tower in China.

The facade is the building's interface with its environment. It is here that building physics parameters such as heat, humidity, sound and light interact with the building. All these influences need to be controlled by the building envelope in order to ensure the comfort of the user and the functional performance of the architecture. This introduction explains the most important phenomena and then relates them to design and building practice - which materials react in which way to these factors? How do facade systems deal with heat, humidity, sound and light? This practice-oriented book, which is the result of cooperation between an architect and a structural engineer, describes the most important facade materials and constructions under the aspect of their building physics performance.

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.

This book is a collection of articles that have been published in the Special Issue "Responsive Architecture" of the MDPI journal Buildings. The eleven articles within cover various areas of sensitive architecture, including the design of packaging structures reacting to supporting components; structural efficiency of bent columns in indigenous houses; roof forms responsive to buildings depending on their resiliently transformed steel shell parts; creative design of building free shapes covered with transformed shells; artistic structural concepts of the architect and civil engineer; digitally designed airport terminal using wind analysis; rationalized shaping of sensitive curvilinear steel construction; interactive stories of responsive architecture; transformed shell roof constructions as the main determinant in the creative shaping of buildings without shapes that are sensitive to man-made and natural environments; thermally sensitive performances of a special shielding envelope on balconies; quantification of generality and adaptability of building layout using the SAGA method; and influence of initial conditions on the simulation of the transient temperature field inside a wall.