

Building Skins Concepts Layers Materials

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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.
Methodologies for Service Life Prediction of Buildings

- Ana Silva 2016-04-28
Presenting an analysis of different approaches for predicting the service life of buildings, this monograph discusses various statistical tools and mathematical models, some of which have rarely been applied to the field. It explores methods including deterministic, factorial, stochastic and computational models and applies these to façade claddings. The models allow (i) identification of patterns of degradation, (ii) estimation of service life, (iii) analysis of loss of performance using probability functions, and (iv) estimation of service life using a probability distribution. The final chapter discusses the differences between the different methodologies and their advantages and limitations. The authors also argue that a better understanding of the service life of buildings results in more efficient building maintenance and reduced environmental costs. It not only provides an invaluable resource to students, researchers and

industry professionals interested in service life prediction and sustainable construction, but is also of interest to environmental and materials scientists.

Building Physics of the Envelope - Ulrich Knaack
2018-05-07

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. *Building Systems Integration for Enhanced Environmental Performance* - Shahin Vassigh 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 Simply* - Christian Schittich 2001-01-01

Phenomenal Skin - Edward Charles Steinemann 2005

Façades - Ulrich Knaack 2014-09-05
Introduction to building façades as revised edition
Façades 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, façades 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 façade functions. This book demonstrates the principles of façade construction. It systematically describes the most common types, such as post-and-beam façade, curtain wall, corridor façade or double façade, 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 Façades" offers insights into what's next.

Building Skins - Christian

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Schittich 2006-01-01

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.

Advanced Materials in Smart Building Skins for Sustainability - Julian Wang
2022-11-30

Conventional building skins are constructed as static structures upon the typical design conditions in terms of external climate and internal occupant activities. This generates dissociation between the envelope structure and its environment. With the emerging advanced materials, such as chromic-based materials, spectrally selective coatings, and transparent photovoltaic, more dynamic and smarter building skins are now achievable and constructible. This book updates readers on the key areas of smart building skins embodied in the novel advanced materials with unique structures and smart properties that enable multiple functions in energy efficiency, solar harvesting, and environmental greenness. It synergistically integrates the

topics and knowledge of material design and experimental studies, theoretical analyses of building energy-saving mechanisms and solar energy utilization, and new design methodologies and processes taking advanced materials into account at different scales - from nano to the macroscale.

Nano and Biotech Based Materials for Energy Building Efficiency - F. Pacheco Torgal
2016-02-04

This book presents the current state of knowledge on nanomaterials and their use in buildings, ranging from glazing and vacuum insulation to PCM composites. It also discusses recent applications in organic photovoltaics, photo-bioreactors, bioplastics and foams, making it an exciting read while also providing copious references to current research and applications for those wanting to pursue possible future research directions. Derek Clements-Croome, Emeritus Professor in Architectural Engineering, University of Reading (From

the Foreword) Demonstrating how higher energy efficiency in new and existing buildings can help reduce global greenhouse gas emissions, this book details the way in which new technologies, manufacturing processes and products can serve to abate emissions from the energy sector and offer a cost-effective means of improving competitiveness and drive employment. Maximizing reader insights into how nano and biotech materials – such as aerogel based plasters, thermochromic glazings and thermal energy adsorbing glass, amongst others – can provide high energy efficiency performance in buildings, it provides practitioners in the field with an important high-tech tool to tackle key challenges and is essential reading for civil engineers, architects, materials scientists and researchers in the area of the sustainability of the built environment.

Architecture and Engineering - Oleg Kapliński 2020-12-18

The book is addressed to architects and civil engineers.

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Design and research are areas connecting their activities. The contents of the book confirm the fact that the interface between architecture and engineering is multidimensional. The ways of finding points of contact between the two industries are highlighted. This is favored by the dynamically changing reality, supported by new design paradigms and new research techniques. The multithreaded subject matter of the articles is reduced to six sections: Research Scopes, Methods, Design Aspects, Context, Nature of Research, and Economy and Cost Calculation. Each of the articles in these six blocks has its weight. And so, in the Nature of Research section, the following areas have been underscored: laboratory tests, in situ research, field investigations, and street perception experiments. The section Design Aspects includes design-oriented thinking, geometrical forms, location of buildings, cost prediction, attractor and

distractor elements, and shaping spatial structures. The new design and research tools are an inspiration and a keystone bonding architects and engineers.

Digital Transformation of the Design, Construction and Management Processes of the Built Environment -

Bruno Daniotti 2019-01-01

This open access book focuses on the development of methods, interoperable and integrated ICT tools, and survey techniques for optimal management of the building process. The construction sector is facing an increasing demand for major innovations in terms of digital dematerialization and technologies such as the Internet of Things, big data, advanced manufacturing, robotics, 3D printing, blockchain technologies and artificial intelligence. The demand for simplification and transparency in information management and for the rationalization and optimization of very fragmented and splintered

processes is a key driver for digitization. The book describes the contribution of the ABC Department of the Polytechnic University of Milan (Politecnico di Milano) to R&D activities regarding methods and ICT tools for the interoperable management of the different phases of the building process, including design, construction, and management. Informative case studies complement the theoretical discussion. The book will be of interest to all stakeholders in the building process - owners, designers, constructors, and faculty managers - as well as the research sector.

Bringing the World Into Culture - Piet Lombaerde 2010

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. Tweeëntwintig 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 onderzoek, theorie en praktijk,

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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.

Building Skins - Institut für Internationale Architektur-Dokumentation 2001

This text 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. International examples with plans and details show the theory in practice.

Bio-based Building Skin - Anna Sandak 2019-03-04

This book provides a compendium of material properties, demonstrates several successful examples of bio-based materials' application in building facades, and offers ideas for new designs and novel solutions. It

features a state-of-the-art review, addresses the latest trends in material selection, assembling systems, and innovative functions of facades in detail. Selected case studies on buildings from diverse locations are subsequently presented to demonstrate the successful implementation of various biomaterial solutions, which defines unique architectural styles and building functions. The structures, morphologies and aesthetic impressions related to bio-based building facades are discussed from the perspective of art and innovation; essential factors influencing the performance of materials with respect to functionality and safety are also presented. Special emphasis is placed on assessing the performance of a given facade throughout the service life of a building, and after its end. The book not only provides an excellent source of technical and scientific information, but also contributes to public awareness by demonstrating

the benefits to be gained from the proper use of bio-based materials in facades. As such, it will appeal to a broad audience including architects, engineers, designers and building contractors.

Rethinking Building Skins - Eugenia Gasparri 2021-12-05
Rethinking Building Skins: Transformative Technologies and Research Trajectories provides a comprehensive collection of the most relevant and forward-looking research in the field of façade design and construction today, with a focus on both product and process innovation. The book brings together the expertise, creativity, and critical thinking of more than fifty global innovators from both academia and industry, to guide the reader in translating research into practice. It identifies new opportunities for the construction sector to respond to present challenges, towards a more sustainable, efficient, connected, and safe future. Introduces the reader to the role of façades with respect to the main challenges ahead;

Provides an overview of the major façade technological advancements throughout history and identifies prospective research trajectories; Includes interviews with key industry players from different backgrounds and expertise; Showcases a comprehensive range of leading research topics in the field, organised by product and process innovation; Covers major innovations across the value chain including façade design, fabrication, construction, operation and maintenance, and end-of-life; Contributes towards the definition of an international research agenda and identifies emerging market opportunities for the façade industry.

Eco-efficient Construction and Building Materials -

Fernando Pacheco-Torgal 2014-02-14

Eco-efficient Construction and Building Materials reviews ways of assessing the environmental impact of construction and building materials. Part one discusses

the application of life cycle assessment (LCA) methodology to building materials as well as eco-labeling. Part two includes case studies showing the application of LCA methodology to different types of building material, from cement and concrete to wood and adhesives used in building. Part three includes case studies applying LCA methodology to particular structures and components. Reviews ways of assessing the environmental impact of construction and building materials Provides a thorough overview, including strengths and shortcomings, of the life cycle assessment (LCA) and eco-labeling of eco-efficient construction and building materials Includes case studies showing the application of LCA methodology to different types of building material, from cement and concrete to wood and adhesives used in building

Ideas + Buildings - Perkins & Will 2008

Perkins+Will, a global architecture and design practice, releases the first

volume in a series of publications showcasing the talent of its teams and scope of their projects. *Ideas + Buildings* defines the essential characteristics of innovation and excellence that make Perkins+Will unique among architecture firms worldwide. The *Ideas + Buildings* series will includes essays on design theory; white papers on programmatic and technological innovation, client business issues and the environment; and ideas that relate directly to the practice and its work as well as broader social and cultural issues. *Ideas + Buildings Collective Process / Global, Social and Sustainable Design* includes 12 unique projects along with anecdotal information about the firm and its history - providing insight into the firm, who they are and what they do. The book demonstrates the progress and energy of Perkins+Will as the firm advances towards its 75th anniversary.

Structural Design Concepts - Louis Albert Scipio 1967

Portugal SB07 - Luis Bragança 2007

"The construction industry is a vibrant and active industry. The building sector is responsible for creating, modifying and improving the living environment of humanity. On the other hand, construction and buildings have considerable environmental impacts, consuming a significant proportion of limited resources of the planet including energy, raw material, water and land. Therefore, the sustainability of the built environment, the construction industry and the related activities is a pressing issue facing all stakeholders in order to promote Sustainable Development. The new millennium is challenging practitioners and researchers with the sustainability of the built environment and the construction industry. Hence, the main purpose of this publication is to discuss these challenges and present solutions that actively facilitate and promote the adoption of policies, methods and tools to

accelerate the movement towards a global sustainable built environment. The issues presented include: Building sustainability assessment tools; Indoor environment quality and benchmarks; Sustainable resources and materials use; Use of non-conventional materials; Use of industrial waste; Eco-materials and technologies; Sustainable management of existing building stock; Innovative sustainable construction systems; and Design."

Design-Tech - Jason Alread
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.

Transparent Plastics -
Simone Jeska 2007-10-05

Recent years have seen the construction of buildings made of plastic, structures that are as attractive as they are unusual. After initial experiments in the 1970s, plastic is currently experiencing a tremendous boom. Originally used for temporary structures like the BMW Pavilion in Frankfurt, it is now employed in many permanent buildings as well, including the recent Catholic church in Radebeul by Staib/Behnisch. Prominent international avant-garde architects such as Shigeru Ban and Herzog & de Meuron frequently use transparent plastic for their structures. Transparent plastic seems ephemeral and thus captures the spirit of the times. Its various qualities between transparent and translucent make it possible to achieve fascinating effects with light and color. Projects presented include the Allianz Arena in Munich by Herzog & de Meuron, the Rocket Tower in Leicester by Grimshaw & Partners, the Paper Art

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Museum by Shigeru Ban in Shizuoka, Japan, and the public housing development Cité Manifeste in Mulhouse by Lacaton Vassal. Seit einigen Jahren entstehen ebenso attraktive wie ungewöhnliche Bauten aus Kunststoff. Nach ersten Versuchen in den 1970er Jahren erlebt der Baustoff derzeit einen ungeheuren Boom. Zunächst für temporäre Bauten wie dem BMW Pavillon in Frankfurt genutzt, entstehen mittlerweile auch zahlreiche bleibende Gebäude (wie kürzlich die Katholische Kirche von Staib/Behnisch in Radebeul). Bekannte Architekten der internationalen Avantgarde wie Shigeru Ban oder Herzog & de Meuron verwenden gerne transparenten Kunststoff für ihre Bauten. Das Material scheint ephemeral, transitorisch (ohne es zu sein) und trifft damit den Nerv der heutigen Zeit. Seine unterschiedlichen Qualitäten zwischen transparent und transluzent erlauben faszinierende Licht- und Farbeffekte. Zu den dargestellten Projekten

gehören die Allianz-Arena in München von Herzog & de Meuron, der Rocket-Tower in Leicester von Grimshaw & Partner, das Papiermuseum von Shigeru Ban in Shizuoka, Japan, und der soziale Wohnungsbau der Cité Manifeste in Mulhouse von Lacaton Vassal.

New Glass Architecture - Brent Richards 2006-01-01

A timely look at the ways in which glass is utilized in some of today's most beautiful and experimental building designs. For centuries, glass has provoked fascination with its properties as a versatile material that permits light to enter buildings in spectacular ways. Much of modern architecture has been conceived by using glass to create increasingly minimal structures, to promote the notion of lightweight construction solutions, and to allow maximum daylight into buildings. *New Glass Architecture* showcases the changing ways that aesthetics and methods for using glass have been developing since the

1990s. The book begins with an introduction that traces the history of key moments in glass architecture--from the stained glass windows of Chartres Cathedral to the Crystal Palace of 1851, and early constructions by John Soane, Bruno Taut, Le Corbusier, and Mies van der Rohe. Author Brent Richards explains the importance of glass artists in the second half of the 20th century and describes developments in glass technology over the last twenty years. Beautifully illustrated with newly commissioned photographs by Dennis Gilbert, the book features twenty-five case studies of recent glass constructions from around the world by such leading architects as Foster and Partners, Frank Gehry, Herzog & de Meuron, Steven Holl, Toyo Ito & Associates, Jean Nouvel, Raphael Viñoly, and Peter Zumthor. Each building is illustrated in full color and accompanied by detailed drawings. New Glass Architecture features these buildings and more: - Chapel of

Ignatius, Seattle - Condé Nast Café, New York - DZ Bank, Berlin - Kimmel Center for the Performing Arts, Philadelphia - Kunsthaus, Graz, Austria - Laban Dance Centre, London - Torre Agbar, Barcelona
exlibris - Giovanni Corbellini
2022-05-18

Architects write a lot, especially now when conceptual aspects have become central in the advanced reflections and narrative forms increasingly intersect the quest of design practices far an ultimate legitimation. In the growing mass of the publishing offer, these keywords try to highlight recurrent issues, tracking synthetic paths of orientation between different critical positions, with particular attention to what happens in the neighbouring fields of the arts and sciences.

Structures and Architecture. A Viable Urban Perspective?

- Marie Frier Hvejsel
2022-07-07

Structures and Architecture. A Viable Urban Perspective? contains extended abstracts of

the research papers and prototype submissions presented at the Fifth International Conference on Structures and Architecture (ICSA2022, Aalborg, Denmark, 6-8 July 2022). The book (578 pages) also includes a USB with the full texts of the papers (1448 pages). The contributions on creative and scientific aspects in the conception and construction of structures as architecture, and on the role of advanced digital-, industrial- and craft -based technologies in this matter represent a critical blend of scientific, technical, and practical novelties in both fields. Hence, as part of the proceedings series Structures and Architecture, the volume adds to a continuous exploration and development of the synergetic potentials of the fields of Structures and Architecture. With each volume further challenging the conditions, problems, and potentials related to the art, practice, and theory of teaching, researching, designing, and building

structures as vehicles towards a viable architecture of the urban environment. The volumes of the series appear once every three years, in tandem with the conferences organized by the International Association of Structures and Architecture and are intended for a global readership of researchers, practitioners, and students, including architects, structural and construction engineers, builders and building consultants, constructors, material suppliers, planners, urban designers, anthropologists, economists, sociologists, artists, product manufacturers, and other professionals involved in the design and realization of architectural, structural, and infrastructural projects.

Materiality and Interior Construction - Jim Postell
2011-06-17

A comprehensive reference of materials for interior designers and architects Choosing the right material for the right purpose is a critical—and often overlooked—aspect in the

larger context of designing buildings and interior spaces. When specified and executed properly, materials support and enhance a project's overall theme, and infuse interior space with a solid foundation that balances visual poetry and functionality. *Materiality and Interior Construction* imparts essential knowledge on how materials contribute to the construction and fabrication of floors, partitions, ceilings, and millwork, with thorough coverage of the important characteristics and properties of building materials and finishes. Individual coverage of the key characteristics of each material explores the advantages and disadvantages of using specific materials and construction assemblies, while helping readers discover how to make every building element count. In addition, *Materiality and Interior Construction*: Is highly illustrated throughout to show material properties and building assemblies. Supplies rankings and information on the "green" attributes of each material so that designers can

make informed decisions for specifications. Is organized by application for easy and quick access to information. Includes a companion website, featuring an extensive online image bank of materials and assemblies. Rather than a typical catalog of materials, *Materiality and Interior Construction* is efficiently organized so that the reader is guided directly to the options for the location or assembly they are considering. Reliable and easy to use, *Materiality and Interior Construction* is a one-stop, comprehensive reference for hundreds of commonly used materials and their integration as building components—and an invaluable resource that every interior designer or architect should add to their set of tools.

Design-tech - Jason Alread
2007

Chapters are: 'Introduction: Basic Design Parameters', 'Pre-Design', 'Circulation', 'Materials', 'Structural Design', 'Buildings Components' and 'Building Services'.

Responsive Architecture -

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Dusan Katunsky 2019-11-20

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.

Dynamic Daylighting Architecture - Helmut Köster 2004

When planning buildings in which people are to work and live, the efficient use of natural daylight and solar energy is increasingly important. The challenge is to compensate the different lighting requirements in winter and summer. Integrated daylight deflection systems buildings, utilize and store solar energy to save artificial lighting, air-conditioning and heating costs. Extensively researched and impressively illustrated with a large number of computer simulations and photographs of built examples, this volume is more than an introduction to the basic principles, functions, designs and calculation

methods of advanced light-guidance technology for architects, lighting designers, building and climate engineers. In particular it provides detailed documentation of the new Retro-Technology systems, explaining the role they can and do play in integrated façade and building design and planning processes. distributed by Syndetic Solutions, Inc.

Deep Skin Architecture -

Timo Carl 2019-04-25

Timo Carl presents alternatives to curtain wall facades and other flat boundaries creating autonomous spaces. He investigates facade typologies with multiple material layers to strategize the relationship between buildings and their environment. By revisiting Le Corbusier's seminal *brise soleil* an alternative reading of the modern project emerges: one that is not based on classical compositional rules, but instead on the dynamic relationships with environmental forces. Finally, an exciting series of project-based investigations sets out innovative ways in which novel

deep skins combine energy-conscious performance with the poetics of architecture.

The Rent of Form - Pedro Fiori Arantes 2019-06-11

A critique of prominent architects' approach to digitally driven design and labor practices over the past two decades With the advent of revolutionary digital design and production technologies, contemporary architects and their clients developed a taste for dramatic, unconventional forms. Seeking to amaze their audiences and promote their global brands, "starchitects" like Herzog & de Meuron and Frank Gehry have reaped substantial rewards through the pursuit of spectacle enabled by these new technologies. This process reached a climax in projects like Gehry's Guggenheim Bilbao and the "Bilbao effect," in which spectacular architectural designs became increasingly sought by municipal and institutional clients for their perceived capacity to enhance property values, which author Pedro

Fiori Arantes calls the “rent of form.” Analyzing many major international architectural projects of the past twenty years, Arantes provides an in-depth account of how this “architecture of exception” has come to dominate today’s industry. Articulating an original, compelling critique of the capital and labor practices that enable many contemporary projects, Arantes explains how circulation (via image culture), consumption (particularly through tourism), the division of labor, and the distribution of wealth came to fix a certain notion of starchitecture at the center of the industry. Significantly, Arantes’s viewpoint is not that of Euro-American capitalism. Writing from the Global South, this Brazilian theorist offers a fresh perspective that advances ideas less commonly circulated in dominant, English-language academic and popular discourse. Asking key questions about the prevailing logics of finance capital, and revealing inconvenient truths about the changing labor of

design and the treatment of construction workers around the world, *The Rent of Form* delivers a much-needed reevaluation of the astonishing buildings that have increasingly come to define world cities.

The Screen Media Reader -
Stephen Monteiro 2017-01-12

As mobile communication, social media, wireless networks, and flexible user interfaces become prominent topics in the study of media and culture, the screen emerges as a critical research area. This reader brings together insightful and influential texts from a variety of sources-theorists, researchers, critics, inventors, and artists-that explore the screen as a fundamental element not only in popular culture but also in our very understanding of society and the world. *The Screen Media Reader* is a foundational resource for studying the screen and its cultural impact. Through key contemporary and historical texts addressing the screen's development and role

in communications and the social sphere, it considers how the screen functions as an idea, an object, and an everyday experience. Reflecting a number of descriptive and analytical approaches, these essays illustrate the astonishing range and depth of the screen's introduction and application in multiple media configurations and contexts. Together they demonstrate the long-standing influence of the screen as a cultural concept and communication tool that extends well beyond contemporary debates over screen saturation and addiction.

Re: Skin - Mary Flanagan
2009-01-23

Skin as boundary and surface, metaphorically and physically: creative and critical perspectives on skin and bodily transformation as it intersects with digital technologies. In *re:skin*, scholars, essayists and short story writers offer their perspectives on skin--as boundary and surface, as metaphor and physical reality. The twenty-first century and its

attendant technology call for a new investigation of the intersection of body, skin, and technology. These cutting-edge writings address themes of skin and bodily transformation in an era in which we are able not only to modify our own skins--by plastic surgery, tattooing, skin graft art, and other methods--but to cross skins, merging with other bodies or colonizing multiple bodies. The book's agile crossings of disciplinary and genre boundaries enact the very transformations they discuss. A short story imagines a manufactured maternal interface that allows a man to become pregnant, and a scholar describes the evolution of "body criticism"; a writer uses "faux science" to explore animal prints on faux fur, and fictional lovers experience one another's sexual sensations through the slipping on and off of skin-like bodysuits. Ubiquitous computational interfaces are considered as the "skin" of technology, and questions of race and color are shown to play out in digital art

practice. The essays and narratives gathered in re:skin claim that the new technologically mutable body is neither purely liberating nor simply limiting; instead, these pieces show us models, ways of living in a technological culture. Contributors Austin Booth, Rebecca Cannon, Model T and Sara D(iamond), L. Timmel Duchamp, Mary Flanagan, Jewelle Gomez, Jennifer Gonzalez, Nalo Hopkinson, Alice Imperiale, Shelley Jackson, Christina Lammer, David J. Leonard, Mendi + Keith Obadike, Melinda Rackham, Vivian Sobchack, Elisabeth Vonarburg, Bernadette Wegenstein

Tall: the design and construction of high-rise architecture - Guy Marriage
2019-09-24

This is a guide to both the basics and the details of tall building design, delving into the rudimentary aspects of design that an architect of a tall office building must consider, as well as looking at the rationale for why and how

a building must be built the way it is. Liberally illustrated with clear, simple black and white illustrations showing how the building structure and details can be built, this book greatly assists the reader in their understanding of the building process for a modern office tower. It breaks down the building into three main components: the structure, the core and the facade, writing about them and illustrating them in a simple-to-understand manner. By focusing on the nuts and bolts of real-life design and construction, it provides a practical guide and desk-reference to any architect or architecture student embarking on a tall building project.

Bioclimatic Double-Skin Façades - Mary Ben Bonham
2019-11-29

Visually enriched with over 250 photographs and drawings, Bioclimatic Double-Skin Façades is an essential reference guide for understanding the types and functions of double-skin façades. 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 façades 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 façade design concepts and strategies for control of thermal, luminous, and acoustic environments. Chapters also address

alternative types of high-performance façades and implications for each phase of façade design and construction. Bioclimatic Double-Skin Façades 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 façades 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.

Towards Zero-energy Architecture - Mary Guzowski
2010-10-11

This book explores the theories, practices and principles of new approaches to solar architecture that foster both design excellence and low-energy use. In response to the challenges of global warming and climate change, design and technology enable architects to achieve greater performance standards while

at the same time developing an environmental aesthetic. The book showcases ten award-winning buildings to illustrate the aesthetic and technological design integration of solar response in contemporary zero-energy and low-energy architecture. For each project there is a detailed examination of the local climate, the design and construction, and the technology used to reduce energy use. Towards Zero-energy Architecture is a much-needed call for the design professions to redefine architecture to help solve ecological problems.

2006 Building Technology Educators' Symposium Proceedings - Deborah Oakley

Skins, Envelopes, and Enclosures - Mayine L. 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.

Light in Engineering, Architecture and the Environment - Konrad Domke
2011

The Wessex Institute of Technology has for years been convening conferences on sustainable architecture and planning, design in nature, heritage architecture, and environmental health. With the growing importance of lighting in the creation of better, healthier environments, the enhancement of heritage architecture, and the recovery of urban areas, as well as new developments in more sustainable lighting it became clear that a conference focusing on lighting issues would be useful. This book contains the papers to be presented at the first International Conference on Lighting in Engineering, Architecture and the Environment, discussing the latest developments in a

variety of topics related to light and illumination, from its engineering aspects to its use in art and architecture and the effect of light on living systems and human health. Ranging from discussions of technical issues regarding equipment design and light measurement to human perception of light and the effect of light on human health, the book will be of interest to architects, planners, environmental health experts, and stage designers in academia, industry and government, as well as colleagues discussing the latest developments in a variety of topics related to light and illumination, from its engineering aspects to its use in art and architecture and the effect of light on living systems and human health.

Construction Materials, Methods and Techniques: Building for a Sustainable Future - Eva Kultermann
2021-05-01

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.