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ETFE - Technology and Design. This book by professor Annette LeCuyser provides an introduction to the characteristics of ETFE and its applications in construction. It explores the specific characteristics of ETFE building skins in the areas of structural behavior, light transmission, insulation, acoustics, fire engineering and environmental modification.

ETFE - Technology and Design - School of Architecture and ...

ETFE: Technology and Design: Author: Annette LeCuyser: Edition: Illustrated: Publisher: Walter de Gruyter, 2008: ISBN: 376438624X, 9783764386245: Length: 160 pages: Subjects

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Offers an introduction to the characteristics of ETFE and its applications in construction. In this title, project examples explore in detail the specific characteristics of ETFE building skins in the areas of structural behavior, light transmission, insulation, acoustics, fire engineering and environmental modification.

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ETFE : Technology and Design (eBook, 2008) [WorldCat.org]

ETFE (Ethylene TetrafluoroEtilene) is a transparent plastic material designed to have a long durability for outdoor applications. ETFE spreaded in architecture in the last 2 dcades thanks to the characteristics of lightness, transparency and economy compared to glass roofs or facades.

ETFE: Roofs, Facades, Installations and Architecture

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Texlon® ETFE - Vector Foiltec

ETFE is commonly used in the nuclear industry for tie or cable wraps and in the aviation and aerospace industries for wire coatings. This is because ETFE has better mechanical toughness than PTFE . In addition, ETFE exhibits a high-energy radiation resistance and can withstand moderately high temperatures for a long period.

ETFE - Wikipedia

ETFE is an abbreviation for Ethylene Tetrafluoroethylene, a translucent polymer sheeting that is used instead of glass and hard plastic in some modern buildings. ETFE is usually installed within a metal framework, where each unit can be lighted and manipulated independently. Light sources can be on either side of the plastic cladding.

Why ETFE Is the Miracle Construction Material

ETFE. Daikin ETFE is an alternating copolymer of ethylene and tetrafluoroethylene. Although not fully fluorinated like PTFE, FEP and PFA, ETFE maintains many of the high performance characteristics such as high temperature (continuous service temperature of 150 Deg C), 20-year weathering, very good electrical properties, and very good chemical inertness.

ETFE - Dalkin America

Nov 12, 2014 - ETFE: Technology and Design by Annette LeCuyser

ETFE: Technology and Design | Facade, Mosque architecture ...

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ETFE MACHINES. We develop machines for high frequency welding of ETFE fabric on demand. These machines can be divided into a table model (Type EWM1000) and a low model (Type EWM250). Of course, customization is also possible. The ETFE machine is easy to operate with a 15 inch HMI Touch screen which can be moved and positioned via a swivel arm.

ETFE machines - ETFE technology

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ETFE foil has recently become an important material for the cladding of technologically sophisticated and innovative buildings. This material is very thin and lightweight and, when used in air-filled cushion assemblies, has enormous strength and a range of adaptive environmental attributes. ETFE cushion enclosures became known primarily through Grimshaw Architects' Eden Project and Herzog + de Meuron's Allianz Arena, and they are being used on the spectacular swimming stadium for the 2008 Olympic Games in Beijing, the largest ETFE building envelope in the worldso far. This book is conceived as an in-depth introduction to the characteristics of ETFE and its applications in construction. Project examples explore in detail the specific characteristics of ETFE building skins in the areas of structural behavior, light transmission, insulation, acoustics, fire engineering and environmental modification.

This book focuses on the impacts of the built environment, and how to predict and measure the benefits and consequences of changes taking place to address sustainability in the development and building industries. It draws together the best treatments of these subjects from the Leeds Sustainability Institute's inaugural International Conference on Sustainability, Ecology, Engineering, Design for Society (SEEDS). The focus of discussion is on understanding how buildings and spaces are designed and nurtured to obtain optimal outcomes in energy efficiency and environmental impacts. In addition to examining technical issues such as modeling energy performance, emphasis is placed on the health and well-being of occupants. This holistic approach addresses the interdependence of people with the built and natural environments. The book's contents reflect the interdisciplinary and international collaboration critical to assembly of the knowledge required for positive change.

Both professionals and students are increasingly committed to achieving high-performance metrics in the design, construction and operation of residential buildings. This book responds to this demand by offering a comprehensive guide which features: architectural innovations in building skin technologies which make lighter more transparent buildings high performing; energy-free architectural design principles and advances in building-integrated photovoltaics; essential engineering principles, controls and approaches to simulation for achieving net zero; the advantages of integrated design in residential construction and the challenges and opportunities it engenders; detailed case studies of innovative homes which have incorporated low-energy design solutions, new materials, alternative building assemblies, digital fabrication, integrated engineering systems and operational controls. Divided into four parts, the book discusses the requisite AEC (Architecture, Engineering and Construction) knowledge needed when building a high-performance home. It also communicates this information across four case studies, which provide the reader with a thorough overview of all aspects to be considered in the design and construction of sustainable homes. With contributions from experts in the field, the book provides a well-rounded and multi-faceted approach. This book is essential reading for students and professionals in design, architecture, engineering (civil, mechanical and electrical), construction and energy management.

Today's design professionals are faced with challenges on all fronts. They need not only to keep in step with rapid technological changes and the current revolution in design and construction processes, but to lead the industry. This means actively seeking to innovate through design research, raising the bar in building performance and adopting advanced technologies in their practice. In a constant drive to improve design processes and services, how is it possible to implement innovations? And, moreover, to assimilate them in such a way that design, methods and technologies remain fully integrated? Focusing on innovations in architecture, this book covers new materials and design methods, advances in computational design practices, innovations in building technologies and construction techniques, and the integration of research with design. Moreover, it discusses strategies for integrating innovation into design practices, risks and economic impacts. Through numerous case studies, it illustrates how innovations have been implemented on actual architectural projects, and how design and technical innovations are used to improve building performance, as well as design practices in cutting edge architectural and engineering firms. Projects of all scales and building types are discussed in the book, ranging from small-scale installations, academic and commercial buildings to large-scale mixed-use, healthcare, civic, academic, scientific research and sports facilities. Work from design firms around the globe and of various scales is discussed in the book, including for example Asymptote Architecture, cepezad, CO Architects, Consarc Architects, FAAB Architektura, Garber Architekten, HOK, IDOM-ACXF, MAD Architects, Morphosis Architects, SDA | Synthesis Design + Architecture, Studiotope, Perkins+Will, Richter Dahl Rocha & Associés, Snohetta, Rob Ley Studio, Trahan Architects, UNStudio and Zaha Hadid Architects, among many others.

How do we design in a climate emergency? A new social and ecological prerogative demands appropriate material choices, a re-invention of construction and evolving building programmes that look at lifecycle, embodied energy and energy use. Highly illustrated with practical information and simple explanations for design ideas, this book is the perfect introduction to sustainable design for architecture students. It presents key concepts in relation to the embodied energy of construction, material properties and environmental performance of buildings in an accessible way. In explaining the principles and technologies by which we heat, cool, moderate and mitigate, it demystifies environmental design as a technical exercise and enables students to create sustainable buildings with impact. Keep this sourcebook with you. Features: Amphibious House (Boca Architects), Ashen Cabin (HANNAH), Bunhill 2 Energy Centre (Ramboll, Cullinan Studio, McCurk Architects and Cololide), Cork House (Matthew Barnett, Howland, Oliver Wilton and Dido Milne), Dymaxon House (Richard Buckminster Fuller), Eastgate Centre (Nick Pearce), Neuron Pod (Will Alsop – all Design and AKT II), Quik House (Adam Kalkin) and Tension Pavilion (StructureMode and Weber Industries). Covers: Acoustics; bamboo construction, biopolymer, bioremediation, CLT, climatic envelope, computational fluid dynamics, earthen architecture, fabric formwork, hempcrete, insulation, mycelium biofabrication, paper construction, passive solar heating, pneumatic structures, solar geometry, tensegrity structures, thermal mass and more.

This book discusses the forerunners, present context, and technology of portable architecture. It documents numerous international examples, organized by areas of application, and offers a broad array of suggestions for practical design.

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Fabric Structures in Architecture covers the varying ways textiles and their properties are used in building construction, with particular focus given to tensile structures. The text begins with the fundamental principles of textiles, including the origins of fabric architecture, then progressing to a discussion of the modern textiles of today. It covers relevant textile materials and their properties, including coatings and membranes. In addition, a range of design considerations are discussed, with detailed information on installation and failure modes. A series of case studies from around the world accompany the discussion, illustrating the applications of textiles in architecture. Offers key coverage of the fundamental principles, from the origins of fabric architecture to modern textile Provides analysis of relevant textile materials and their properties, including coatings and membranes Contains expert insights in to the applications of textiles in architecture, presenting a series of relevant case-studies from around the world

TERRAFORMING MARS This book provides a thorough scientific review of how Mars might eventually be colonized, industrialized, and transformed into a world better suited to human habitation. The idea of terraforming Mars has, in recent times, become a topic of intense scientific interest and great public debate. Stimulated in part by the contemporary imperative to begin goengineering Earth, as a means to combat global climate change, the terraforming of Mars will work to make its presently hostile environment more suitable to life—especially human life. Geoengineering and terraforming, at their core, have the same goal—that is to enhance (or revive) the ability of a specific environment to support human life, society, and industry. The chapters in this text, written by experts in their respective fields, are accordingly in resonance with the important, and ongoing discussions concerning the human stewardship of global climate systems. In this sense, the text is both timely and relevant and will cover issues relating to topics that will only grow in their relevance in future decades. The notion of terraforming Mars is not a new one, as such, and it has long played as the background narrative in many science fiction novels. This book, however, deals exclusively with what is physically possible, and what might conceivably be put into actual practice within the next several human generations. Audience Researchers in planetary science, astronomy, astrobiology, space engineering, architecture, ethics, as well as members of the space industry.

The Ecologies of the Envelope theorizes the building envelope as a literal embodiment of the social, political, technological, and economic contingencies which have become embedded within it over the last century, analyzing the historical lineages, heroes and villains that helped define the complex material ecologies we see within the envelope today. While the façade is one of the most thoroughly theorized elements of architecture, it is also one of the most questioned since the end of the 19th century. Within the discipline of architecture, the traditional understanding of the façade focuses primarily on semiotic and compositional operations (such as proportional laws and linguistic codes), which are deployed on the building's surface. In contrast to this, our material and environmental theory of the envelope proposes that the exponential development of building technologies since the mid-19th century, coupled with new techniques of management and regulation, have diminished the compositional and ornamental capacities of the envelope in favor of material, quantitative, and technical performances. Rather than producing a stylistic analysis of the façade, we investigate the historical lineages of the performances, components, assembly types, and material entanglements that constitute the contemporary building envelope.

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