

Etf Technology And Design

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ETFE: Technology and Design: Author: Annette LeCuyer: Edition: illustrated:

Publisher: Walter de Gruyter, 2008: ISBN: 376438624X, 9783764386245: Length: 160 pages: Subjects

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ETFE: Technology and Design - ResearchGate

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 - Daikin America

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

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.

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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 world so 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.

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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.

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 (Baca Architects), Ashen Cabin (HANNAH), Bunhill 2 Energy Centre (Ramboll, Cullinan Studio, McGurk Architects and Colloide), Cork House (Matthew Barnett Howland, Oliver Wilton and Dido Milne), Dymaxion House (Richard Buckminster Fuller), Eastgate Centre (Mick 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.

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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 geoengineering 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 articles in this text, written by experts in their respective fields, are accordingly in resonance with the important, and on-going 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.

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

Whether it be as translucent sheets, broadly stretched membranes, and inflated foil cushions or in graceful, organic curves, architecture today is utilizing plastics in the most disparate forms and for a wide variety of purposes. Innovative technical developments are constantly improving its material properties; at the same time, there is a growing new awareness of its potential as a construction material. While plastics used to be employed primarily as an inexpensive variant on traditional building materials, they are increasingly regarded in the construction world today as a serious and viable alternative, be it as supporting structures, roofs, facades, or elements of interior design and decoration. Thanks in large part to this inherent self-sufficiency, plastics are currently enjoying an unprecedented surge in popularity, even among the international architectural avant-garde – as multiwall sheets or

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corrugated, fiber-reinforced panels, or as filling between glass panes. And the new generation of ecological bioplastics also pays tribute to the debate on sustainability, ridding plastics of their lingering reputation as environmental offenders. From the history of plastics and membranes in architecture to their material properties and requirements in construction and design, the *Plastics and Membranes Construction Manual* cuts to the chase, providing the kind of solid and comprehensive overview of the subject that readers have come to expect from the *Im DETAIL* series. Selected project examples round off the reference work and make it indispensable for the day-to-day life of the professional planner and for every architecture library.

This book describes the detailed process behind the development of a comprehensive thermo-bio-architectural framework (the ThBA). This framework systematically connects the thermal performance requirements of a building to relevant solutions found in the natural world. This is the first time that architecture has been connected to biology in this manner. The book provides an in-depth understanding of thermoregulatory strategies in animals and plants and links these to equivalent solutions in architectural design. The inclusion of this fundamental knowledge, along with the systematic process of accessing it, should open up new avenues for the generation of energy efficient and sustainable buildings.

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