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I 6 I European Design Guide for Tensile Surface Structures 7 Frei Otto The Architects Task The biotope building, the city as an ecological system, the way to the minimal mass building, to the minimal energy building, that is one with the landscape and at the same time architecture, is to be found. The task is a difficult one.

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European Design Guide for - Tensinet
The European Design Guide for Surface Tensile Structures has been published in August 2004. The design guide contains the following chapters: Introduction John Chilton, Brian Forster Engineered fabric architecture Brain Forster, Marijke Mollaert Form J ü rgen Bradatsch, Peter P ä tzold, Cristiana Saboia de Freitas, Rudi Scheuermann, Juan Monjo,

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European Design Guide for Tensile Surface Structures Forster B. , Mollaert M. et al. TensiNet, 2004. 332 p.Appendix A2 is missing.The European Design Guide for Tensile Surface Structures is a product of over three years work by the members of TensiNet - A Thematic Network for Upgrading the Built Environment in Europe through Tensile Structures, which was initiated on 1 March 2001.

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EU-funded research in the field of tensile surface structures to provide recommendations for designers, in the absence of comprehensive national or European design guidance in this area.

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The European Design Guide for Tensile Surface Structures was the key outcome from the EU-funded (Contract G1RT-CT-2000-05010) Thematic Network, TensiNet, which brought together 22 partners (including academic researchers, designers, material manufacturers, fabricators and testing laboratories) from 9 different countries.

Introduction [European design guide for tensile surface ...

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Weldable steel for the reinforcement of concrete has become subject to the European Standard, BS EN 10080. ... Ratio of tensile strength/Yield strength, A gt, ... design and construction guidance. Our aim is to enable all those involved in the design, use and performance of concrete and masonry to realise the potential of these materials.

Standards for reinforcement - Concrete Centre
European Standards (abbreviated ENs owing to the more literal translation from French/German as European Norms) are technical standards drafted and maintained by CEN (European Committee for Standardization), CENELEC (European Committee for Electrotechnical Standardization) and ETSI (European Telecommunications Standards Institute

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 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.

Textiles, polymers and composites are increasingly being utilised within the building industry. This pioneering text provides a concise and representative overview of the opportunities available for textile, polymer and composite fibres to be used in construction and architecture. The first set of chapters examine the main types and properties of textiles, polymers and composites used in buildings. Key topics include the types and production of textiles, the use of polymer foils and fibre reinforced polymer composites as well as textiles and coatings for tensioned membrane structures. The second part of the book presents a selection of applications within the building industry. Chapters range from the use of textiles in tensile structures, sustainable building concepts with textile materials, innovative composite-fibre applications for architecture, to smart textile and polymer fibres for structural health monitoring. With its distinguished editor and team of international contributors, Textiles, polymers and composites for buildings is an important reference for architects, fabric manufacturers, fibre-composite experts, civil engineers, building designers, academics and students. Provides a concise and representative overview of the opportunities available for textile, polymer and composite fibres to be used in construction Provides an insight into how high-tech textiles already influence our daily lives as well as potential applications in modern buildings Features a thorough discussion of technical characteristics and requirements of textiles used for buildings and construction

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

"The Design Recommendations for ETFE foil Structures are a product of over 4 years work by TensiNet ETFE Working group. TensiNet is an association or platform for all parties interested in tensioned membrane structures. It is a multi-disciplinary association, conforming to the initial objectives of the EU-funded thematic network (2001-2004). The Design recommendations for ETFE foil structures have been established as a separate Annex of the European Design Guide for Tensile Surface Structures, published by the TensiNet Association in 2004. Although ETFE is a widely used material, it is still a young material compared to other materials as steel, wood and concrete. A European standard is not available nor is extensive research on mechanical properties. These design recommendations present current knowledge and compare different design concepts. Therewith it is a ' state-of-the-art ' report, not intending to be

comprehensive. However, as TensiNet is involved in the preparation of a Eurocode on Membrane Structures (CEN/TC250 WG5), these recommendations will be used as input for the Eurocode on Membrane Structures. This Guide recommends safety requirements which need to be considered for the design, calculation, manufacture, installation, maintenance, operation, examination and testing of ETFE foil structures. This can be applied to double- and multi-layer ETFE cushion structures or single layer tensioned ETFE membrane structures. The field of application of this Guide includes all kinds of ETFE covered structures. The content of this Guide brings together the different existing concepts as far as possible" -- TensiNet.com.

This book offers a well-structured, critical review of current design practice for tensioned membrane structures, including a detailed analysis of the experimental data required and critical issues relating to the lack of a set of design codes and testing procedures. The technical requirements for biaxial testing equipment are analyzed in detail, and aspects that need to be considered when developing biaxial testing procedures are emphasized. The analysis is supported by the results of a round-robin exercise comparing biaxial testing machines that involved four of the main research laboratories in the field. The biaxial testing devices and procedures presently used in Europe are extensively discussed, and information is provided on the design and implementation of a biaxial testing rig for architectural fabrics at Politecnico di Milano, which represents a benchmark in the field. The significance of the most recent developments in biaxial testing is also explored.

As we become familiar with the 21st century we can see that what we are designing is changing, new technologies support the creation of new forms of product and service, and new pressures on business and society demand the design of solutions to increasingly complex problems, sometimes local, often global in nature. Customers, users and stakeholders are no longer passive recipients of design, expectations are higher, and increased participation is often essential. This book explores these issues through the work of 21 research teams. Over a twelve-month period each of these groups held a series of workshops and events to examine different facets of future design activity as part of the UK's research council supported Designing for the 21st Century Research Initiative. Each of these 21 contributions describes the context of enquiry, the journey taken by the research team and key insights generated through discourse. Editor and Initiative Director, Tom Inns, provides an introductory chapter that suggests ways that the reader might navigate these different viewpoints.

The use of fibrous materials in civil engineering, both as structural reinforcement and in non-structural applications such as geotextiles, is an important and interesting development. Fibrous and composite materials for civil engineering applications analyses the types and properties of fibrous textile and structures and their applications in reinforcement and civil engineering. Part one introduces different types of fibrous textiles and structures. Chapters cover the properties of natural and man-made fibres and of yarns, as well as an overview of textile structures. Part two focuses on fibrous material use in concrete reinforcement, with chapters on the properties and applications of steel fibre reinforced concrete, natural fibre reinforced concrete and the role of fibre reinforcement in mitigating shrinkage cracks. In part three, the applications of fibrous material-based composites in civil engineering are covered. Chapters concentrate on production techniques and applications such as reinforcement of internal structures, structural health monitoring and textile materials in architectural membranes. With its distinguished editor and international team of contributors, Fibrous and composite materials for civil engineering applications is a standard reference for fabric and composite manufacturers, civil engineers and professionals, as well as academics with a research interest in this field. Explores the development of fibrous materials in civil engineering, both as structural reinforcement and in non-structural applications such as geotextiles Key topics include short fibre reinforced concrete, natural fibre reinforced concrete and high performance fibre reinforced cementitious composites A standard reference for fabric and composite manufacturers, civil engineers and professionals, as well as academics with a research interest in this field

Tensile surface structures are the visual expression of an intensive rethinking of the topic of building envelopes by designers. Advances in design methods, materials, construction elements and assembly and erection planning in the field of lightweight construction are enabling ever more exacting applications of tensile structures with envelope and structural functions, especially in roofing over large clear spans without internal support. However, the particular mechanical characteristics of the materials used in the construction of textile structures demand consideration of the question of "buildability". This book provides answers by discussing the fundamental influence of material manufacture and assembly in deciding the most suitable type of building or structure and its detailing in the design process. The fundamentals of material composition, manufacturing process, patterning and the behaviour of flexible structural systems are all explained here, as well as their use as structural and connection elements, and special attention is given to the erection of wide-span lightweight structures. The erection equipment is described, as well as the lifting and tensioning process and the construction methods used to erect the characteristic types of tensile structures, illustrated with a selection of example projects. Forword by Werner Sobek.