

The horizontally sliding cushions in the Gerry Weber Stadium allow the roof to be open, allowing fresh air and direct sunlight to penetrate.

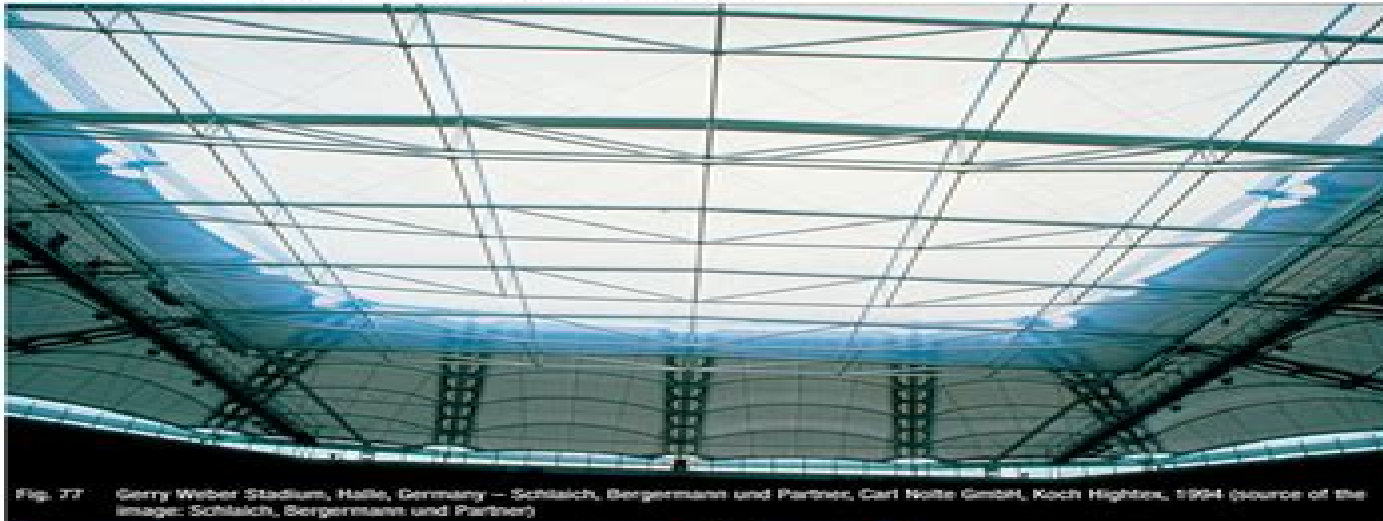


Fig. 77 Gerry Weber Stadium, Halle, Germany – Schlaich, Bergemann und Partner, Carl Nolte GmbH, Koch HighTex, 1994 (source of the image: Schlaich, Bergemann und Partner)



Fig. 78 Swimming pool, Paris, France – R. Tallibert, Du Chateau, Stromeyer & Co., 1967 (ph. M. Mollaert)

A single skin cover for a swimming pool requires a high energy level input during winter since a relatively high internal temperature level needs to be maintained. The heating costs unfortunately are excessive.

European Design Guide For Surface Tensile Structures

Emil Simiu, DongHun Yeo



European Design Guide For Surface Tensile Structures:

The European Design Guide for Tensile Surface Structures Brian Forster, Marijke Mollaert, 2004 **European Design Guide for Surface Tensile Structures**, 2004 **Fabric Structures in Architecture** J Llorens, 2015-03-28 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 **Construction Manual for Polymers + Membranes** Jan Knippers, Jan Cremers, Markus Gabler, Julian Lienhard, 2012-12-17 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 [Biaxial Testing for Fabrics and Foils](#) Paolo Beccarelli, 2015-01-30 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

Fibrous and Composite Materials for Civil Engineering Applications R Figueiro,2011-04-19 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

Wind Tunnel Designs and Their Diverse Engineering Applications Noor Ahmed,2013-03-06 This book is intended to be a valuable addition to students engineers scientists industrialists consultants and others providing greater insight into wind tunnel designs and their enormous research potential It is a compilation of works from world experts on subsonic and supersonic wind tunnel designs applicable to a diverse range of disciplines The book is organised in two sections The first section comprises of three chapters on various aspects of stationary and portable subsonic wind tunnel designs followed by one chapter on supersonic wind tunnel and the final chapter discusses a method to address unsteadiness effects of fan blade rotation The second section contains four chapters regarding wind tunnel applications across a multitude of engineering fields including civil mechanical chemical and environmental engineering

Textiles, Polymers and Composites for Buildings G Pohl,2010-09-27 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

Structures and Architecture Paulo J. Cruz, 2013-06-27 Although the disciplines of architecture and structural engineering have both experienced their own historical development their interaction has resulted in many fascinating and delightful structures To take this interaction to a higher level there is a need to stimulate the inventive and creative design of architectural structures and to persuade Designing for the 21st Century Tom Inns, 2016-12-05 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 14th International Probabilistic Workshop Robby Caspeele, Luc Taerwe, Dirk Proske, 2016-11-20 This book presents the proceedings of the 14th International Probabilistic Workshop that was held in Ghent Belgium in December 2016 Probabilistic methods are currently of crucial importance for research and developments in the field of engineering which face challenges presented by new materials and technologies and rapidly changing societal needs and values Contemporary needs related to for example performance based design service life design life cycle analysis product optimization assessment of existing structures and structural robustness give rise to new developments as well as accurate and practically applicable probabilistic and statistical engineering methods to

support these developments These proceedings are a valuable resource for anyone interested in contemporary developments in the field of probabilistic engineering applications

Lightweight Energy Alessandra Zanelli, Carol Monticelli, Nebojsa Jakica, Zhengyu Fan, 2022-11-30 This book explores membrane materials as a means of translating natural and renewable resources into a more flexible dynamic and reactive architectural skin It represents the first time that energy saving design has been addressed systematically in relation to lightweight building systems and tensile membranes Understanding of the energetic behavior of membranes and foils used as a building envelope is a fundamental theme as it is the integration of flexible photovoltaics in membranes as well as the exploitation of water and wind resources A theoretical methodological framework for consciously designing the membrane life cycle is presented The authors cross cut and combine exploration of climate based design methodology and life cycle thinking strategies Both active and passive systems are investigated referring to alternative productive resources like sun wind and water Case studies are brought forward in the book s second half highlighting energy lightness for an increasingly dematerialized architecture and addressing inherent issues Four main research and development paths are presented the first two focusing on advancements in facade materials and Photovoltaic systems applicable to membrane architecture the third referring to fog and dew harvesting and the fourth dealing with the future frontier of flexible transparency and designs for well being through a passive solar system

Wind Tunnels and Experimental Fluid Dynamics Research Jorge Colman Lerner, Ulfilas Boldes, 2011-07-27 The book Wind Tunnels and Experimental Fluid Dynamics Research is comprised of 33 chapters divided in five sections The first 12 chapters discuss wind tunnel facilities and experiments in incompressible flow while the next seven chapters deal with building dynamics flow control and fluid mechanics Third section of the book is dedicated to chapters discussing aerodynamic field measurements and real full scale analysis chapters 20 22 Chapters in the last two sections deal with turbulent structure analysis chapters 23 25 and wind tunnels in compressible flow chapters 26 33 Contributions from a large number of international experts make this publication a highly valuable resource in wind tunnels and fluid dynamics field of research

Tensinet Symposium 2007 Alessandra Zanelli, 2007

Sustainable Ecological Engineering Design Mohammad Dastbaz, Chris Gorse, 2016-05-19 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

High Performance Structures and Materials Engineering Mark Zhou, 2011-03-30 Selected peer reviewed paper from 2011 First International Conference on High Performance Structures and Materials Engineering ICHPSM 2011 in May 5 6 Beijing China 2011 **Wind Effects on Structures** Emil Simiu, DongHun Yeo, 2019-03-11 Provides structural engineers with the knowledge and practical tools needed to perform structural designs for wind that incorporate major technological conceptual analytical and computational advances achieved in the last two decades With clear explanations and documentation of the concepts methods algorithms and software available for accounting for wind loads in structural design it also describes the wind engineer s contributions in sufficient detail that they can be effectively scrutinized by the structural engineer in charge of the design Wind Effects on Structures Modern Structural Design for Wind 4th Edition is organized in four sections The first covers atmospheric flows extreme wind speeds and bluff body aerodynamics The second examines the design of buildings and includes chapters on aerodynamic loads dynamic and effective wind induced loads wind effects with specified MRIs low rise buildings tall buildings and more The third part is devoted to aeroelastic effects and covers both fundamentals and applications The last part considers other structures and special topics such as trussed frameworks offshore structures and tornado effects Offering readers the knowledge and practical tools needed to develop structural designs for wind loadings this book Points out significant limitations in the design of buildings based on such techniques as the high frequency force balance Discusses powerful algorithms tools and software needed for the effective design for wind and provides numerous examples of application Discusses techniques applicable to structures other than buildings including stacks and suspended span bridges Features several appendices on Elements of Probability and Statistics Peaks over Threshold Poisson Process Procedure for Estimating Peaks estimates of the WTC Towers Response to Wind and their shortcomings and more Wind Effects on Structures Modern Structural Design for Wind 4th Edition is an excellent text for structural engineers wind engineers and structural engineering students and faculty Proceedings of 2019 International Conference on Optoelectronics and Measurement Yingquan Peng, Xinyong Dong, 2021-03-15 This book presents high quality papers from the 2019 International Conference on Optoelectronics and Measurement ICOM2019 which was held on November 28 30 2019 in Hangzhou China It focuses on the latest developments in the fields of optics photonics optoelectronics sensors and related measurement technology Being closely related to either the key device technology or the important commercial applications topics of fiber optics photodetectors sensors and measurement technology are of particular interest for the readers The book contains the illustrations of advanced device technologies measurement principles as well as scientific and technological conclusions of the great reference value The readers will gain deep insight into the latest development in the related fields obtain important technical data and scientific conclusions and inspire new ideas for their research ETHICS: Endorse Technologies for Heritage Innovation Alessandra Battisti, Serena Baiani, 2024-01-04 This book outlines within the Italian national framework the current and potential paths oriented towards a new concept of Architectural Heritage through

actions referring to Innovation and Experimentation and Protection and Transformation of the Architectural Heritage The development of the themes is articulated in two sessions dealing with the aspects related to the analysis and mapping of Architectural Heritage to face the context of the current Climate Crisis and the development of projects and experimentations oriented to the Green and Digital Transition The evolution of the concept of Heritage as conceived by the United Nations 2030 Agenda and in the Green Deal and New European Bauhaus aimed at constructing an inclusive and universally recognised definition to support supranational objectives of sustainable human development gives rise to innovative strategies methodologies and technologies that in a direction of mitigation contrast and adaptation to climate change allow for the safeguard renewed management and a hope for valorisation of Heritage on a national scale In this direction the understanding of Architectural Heritage as a non renewable resource determines the need to activate design experimentation laboratories oriented towards regeneration articulated and complex which require in order to respond to the challenges posed by our era a sensitive and dialogic multidisciplinary vision of a holistic type In fact on the one hand it is necessary to redefine the usability and management methods of built heritage through the adoption of digital mobility energy ecological social green and blue infrastructures on the other hand it is necessary to introduce new qualitative and quantitative parameters and performance indicators adequate to verify the validity of the implemented strategies in a perspective of adaptation to climate change able to clarify contents processes and tools to contrast future risks The pursuit of these objectives refers to the innovation of training paths professionalising procedures administrative regulations and public policies that involve citizens and the private partnership towards a different project qualification and empowerment of stakeholders inhabitants professionals and clients The Technological Project makes it possible to activate different interventions aimed at acting in an integrated manner on assets context and communities according to an approach that reinterprets them on a common score as proposed by the European Next Generation programme in three priority aspects digitalisation and innovation environmental transition increased resilience and social sustainability of national economies In this scenario the interventions aimed at outlining sustainable development actions will have to place these concepts at the centre in a harmonious vision that starts from the recognition and enhancement of the Architectural Heritage recognising it as a fundamental asset of the territories

Lightweight Landscape Alessandra Zanelli, Luigi Spinelli, Carol Monticelli, Paolo Pedrali, 2015-10-13 This book explains how lightweight materials and structures can be deployed in buildings to meet high environmental and aesthetic standards and emphasizes how the concept of lightness in building technology and design dovetails with the desire to enhance landscape The first part of the book on lightweight construction aims to foster the use of membranes within the specific climatic context and in particular considers how lightweight materials and innovative technologies can enrich the quality of temporary spaces The second part focuses exclusively on landscape presenting novel approaches in the search for visual lightness and the quest to improve urban spaces Particular attention is paid to the Italian

experience where the traditional appreciation of brick and stone has limited the scope for use of lightweight structures and membrane materials often relegating them to a secondary or inappropriate role The reader will come to appreciate how this attitude demeans a very advanced productive sector and neglects the ancient tradition of temporary architecture

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