

COMPUTATIONAL METHODS IN APPLIED SCIENCES

Eugenio Oñate and Bern Kroplin (Eds.)

# Textile Composites and Inflatable Structures



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# Textile Composites And Inflatable Structures

**G Pohl**

## **Textile Composites And Inflatable Structures:**

**Textile Composites and Inflatable Structures** Eugenio Oñate,B.-H. Kröplin,2005-06-08 This book collects state of the art research and technology for design analysis construction and maintenance of textile and inflatable structures Textile composites and inflatable structures have become increasingly popular for a variety of applications in among many other fields civil engineering architecture and aerospace engineering Typical examples include membrane roofs and covers sails inflatable buildings and pavilions airships inflatable furniture airspace structures etc The book contains 18 invited contributions written by distinguished authors who participated in the International Conference on Textile Composites and Inflated Structures held in Barcelona from June 30th to July 2nd 2003 The meeting was one of the Thematic Conferences of the European Community on Computational Methods in Applied Sciences ECCOMAS The different chapters discuss recent progress and future research directions in membrane and inflatable structures built with new textile composite materials Approximately half of the book focuses on describing innovative numerical methods for structural analysis of such structures such as new nonlinear membrane and shell finite elements The rest of the chapters present advances in design construction and maintenance procedures

Textile Composites and Inflatable Structures II Eugenio Oñate,B.-H. Kröplin,2007-12-21 The book contains 14 invited contributions written by distinguished authors who participated in the Second International Conference on Textile Composites and Inflated Structures held in Stuttgart 2 4 October 2005 The book includes state of the art contributions written by international experts in the field of design analysis and construction of textile composites and inflatable structures The different chapters discuss recent progress and future research directions the field

**Textile Composites and Inflatable Structures** Eugenio Oñate,Bernd Kröplin,2006-03-30 This book collects state of the art research and technology for design analysis construction and maintenance of textile and inflatable structures Textile composites and inflatable structures have become increasingly popular for a variety of applications in OCo among many other fieldsaOCO civil engineering architecture and aerospace engineering Typical examples include membrane roofs and covers sails inflatable buildings and pavilions airships inflatable furniture airspace structures etc The book contains 18 invited contributions written by distinguished authors who participated in the International Conference on Textile Composites and Inflated Structures held in Barcelona from June 30th to July 2nd 2003 The meeting was one of the Thematic Conferences of the European Community on Computational Methods in Applied Sciences ECCOMAS The different chapters discuss recent progress and future research directions in membrane and inflatable structures built with new textile composite materials Approximately half of the book focuses on describing innovative numerical methods for structural analysis of such structures such as new nonlinear membrane and shell finite elements The rest of the chapters present advances in design construction and maintenance procedures

Textile composites and inflatable structures II : proceedings of the second International Conference on Textile Composites and Inflatable Structures held in Stuttgart,

Germany 2 - 5 October 2005 International Conference on Textile Composites and Inflatable Structures,2005    **Textile Composites and Inflatable Structures II** Eugenio Oñate,Bernd Kröplin,2010-09-09 Textile composites and inflatable structures have become increasingly popular for a variety of applications in among many other fields civil engineering architecture and aerospace engineering Typical examples include membrane roofs and covers sails inflatable buildings and pavilions airships inflatable furniture airspace structures etc The ability to provide numerical simulations for increasingly complex membrane and inflatable structures is advancing rapidly due to both remarkable strides in computer hardware development and the improved maturity of computational procedures for nonlinear structural systems Significant progress has been made in the formulation of finite elements methods for static and dynamic problems complex constitutive material behaviour coupled aero elastic analysis etc The book contains 14 invited contributions written by distinguished authors who participated in the Second International Conference on Textile Composites and Inflated Structures held in Stuttgart 2 4 October 2005 The meeting was one of the Thematic Conferences of the European Community on Computational Methods in Applied Sciences ECCOMAS [www.eccomas.org](http://www.eccomas.org) The different chapters discuss recent progress and future research directions in new textile composites for applications in membrane and inflatable structures Part of the book focuses in describing innovative numerical methods for structural analysis such as new non linear membrane and shell finite elements The rest of the chapters present advances in design construction and maintenance procedures This volume contains state of the art research and technology for design analysis construction and maintenance of textile and inflatable structures and will be of interest to civil engineers architects and materials scientists

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Bernd Kröplin,K. -U. Bletzinger,2011    *Membranes 2011* ,2011    **Textile Composites and Inflatable Structures VII**

Eugenio Oñate,K.-U. Bletzinger,B. Kröplin,2015    *Structural Membranes 2013* ,2013    **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

**Proceeding of the III International Conference on Textile Composites and Inflatable Structures** Eugenio Oñate,2007    *Advanced Structural Textile Composites Forming* Peng Wang,Nahiène Hamila,2024-08-27 Advanced Structural Textile Composites Forming Characterization Modeling and Simulation

comprehensively describes the influence of fiber fabric architectures and properties on composites forming along with their deformability and structural optimization covering the latest advances in the composites forming field Part one reviews textile reinforcement architectures and discusses the forming behaviors of important 2D and 3D fabrics Part two discusses numerical models to conduct simulation analysis of different structural composites forming at mesoscopic and macroscopic scales in particular 3D preforms with through the thickness yarns Part three looks at the latest developments in the relationship between forming and other steps in composite manufacturing such as resin injection and automated fiber placement AFP and the effects on certain mechanical properties such as structural damage and impact resistance The book will be an essential reference for academic researchers industrial engineers and materials scientists working with the manufacture and design of fiber reinforced composite materials Describes the influence of the fiber fabric architectures and properties on composites forming along with their deformability and structural optimization Provides numerical modeling and simulation of different fiber reinforced composites forming at mesoscopic and macroscopic scales in particular reinforcements with discontinue fibers and 3D preforms with through the thickness yarns Discusses cutting edge topics such as resin injection and automated fiber placement AFP and the effects of forming results on mechanical properties such as structural damage and impact resistances

Proceedings of the 11th International Conference of Ar.Tec. (Scientific Society of Architectural Engineering) Rossella Corrao,Tiziana Campisi,Simona Colajanni,Manfredi Saeli,Calogero Vinci,2024-10-26

This book gathers the proceedings of the 11th International Conference of Ar Tec Scientific Society of Architectural Engineering Colloqui AT e which was held in Palermo Italy on June 12 15 2024 and brought together scholars in the fields of construction and conservation history building construction and performance building design and technologies Digital transition and design of 4 0 buildings digital twins for the management of historical building heritage building human environment relationships and mitigation of vulnerabilities for the preservation of the built environment are also explored The contributions demonstrate that architectural engineering enables the construction of sustainable resilient adaptive and high performance buildings and as such is instrumental in fighting against climate change

Multiscale Textile Preforms and Structures for Natural Fiber Composites Mohamad Midani,Tamer Hamouda,Ahmed H. Hassanin,Abdel-Fattah M.

Seyam,2023-07-10 Textile reinforcement forms preforms play an important role in determining the properties of the final composite and product The preform formation process provides precise control of the fiber architecture and orientation using a suitable textile manufacturing technique While the techniques employed for preparing glass and carbon preforms are well known there is still a gap in understanding on how to prepare natural preforms for composite reinforcements Multiscale Textile Preforms and Structures for Natural Fiber Composites will bridge this gap by presenting unified knowledge on the relevant preform preparation techniques and resulting fiber architectures Emphasis is on the structural parameters of each preform and their effect on the final composite properties This book assembles information and knowledge on natural fiber reinforcement forms including conventional forms such as spun yarn woven knitted nonwoven braided and comingled These are illustrated and classified into one two and three dimensional reinforcements This book also includes information on nonconventional preform formation techniques such as unidirectional tapes pre impregnated preforms spread tows and tailored fiber placement Covers all relevant textile processing technology for natural fiber preforms Provides academic researchers with a better understanding of recent practices in preparing textile reinforcements for natural fiber composites Helps practitioners determine how to use natural fiber reinforcements in producing new sustainable and innovative composites

*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

High Performance Technical Textiles Roshan Paul,2019-02-19 An authentic resource for the fundamentals applied techniques applications and recent advancements of all the main areas of technical textiles Created to be a comprehensive reference High Performance Technical Textiles includes the review of a wide range of technical textiles from household to space textiles The contributors noted experts in the field from all the continents offer in depth coverage on the fibre materials manufacturing processes and techniques applications current developments sustainability and future trends The contributors include discussions on synthetic versus natural fibres various textile manufacturing techniques textile composites and finishing approaches that are involved in the manufacturing of textiles for a specific high performance application Whilst the book provides the basic knowledge required for an understanding of technical textiles it can serve as a springboard for inspiring new inventions in hi tech fibres and textiles

This important book Contains a unique approach that offers a comprehensive understanding of the manufacturing and applications of technical textiles Includes a general overview to the fundamentals current techniques end use applications as well as the most recent advancements Explores the current standards in the industry and the ongoing research in the field Offers a comprehensive and single source reference on the topic Written for academics researchers and professionals working in textile and related industries High Performance Technical Textiles offers a systematic structured logical and updated source of information for understanding technical textiles

Smart Technologies for Safety Engineering Jan Holnicki-Szulc,2008-04-30 Smart technologies comprise a dynamic new interdisciplinary research field that encompasses a wide spectrum of engineering applications including but not limited to intelligent structures and materials actuators sensors and structural observability control systems and software tools for the design of adaptive structures Smart technologies focus on the issues surrounding the safety and integrity of engineering systems Smart Technologies for Safety Engineering presents the achievements of ten years of research from the Smart Tech Centre applied to some of the key issues of safety engineering Results presented include Original methods and software tools for modelling design simulation and control of adaptive structures and applicability of the adaptive concept to the design of structures for extreme loads Application of the smart tech concept to hot research topics and emerging engineering issues including health monitoring of structures and engineering systems monitoring of loading conditions automatic structural adaptation to unpredictable randomly changing dynamic conditions and the optimal design of adaptive structures and engineering systems Numerically efficient and original software packages that can be used for the design of adaptive as well as passive without control devices structures The Virtual Distortion Method which has been developed especially for fast reanalysis of structures and systems and exact sensitivity analysis allowing for effective modelling design health monitoring and control of smart engineering systems The original research and practical applications in Smart Technologies for Safety Engineering will appeal to a broad spectrum of engineers researchers professors and graduate students involved in the research design and development of widely understood adaptronics and mechatronics including smart structures and materials adaptive impact absorption health and load monitoring vibration control vibroacoustics and related issues

Structural Design and Optimization of Lifting Self-forming GFRP Elastic Gridshells based on Machine Learning Soheila Kookalani,Hamidreza Alavi,Farzad Pour Rahimian,2025-08-26 Structural Design and Optimization of Lifting Self forming GFRP Elastic Gridshells Based on Machine Learning presents the algorithms of machine learning ML that can be used for the structural design and optimization of glass fiber reinforced polymer GFRP elastic gridshells including linear regression ridge regression K nearest neighbors decision tree random forest AdaBoost XGBoost artificial neural network support vector machine SVM and six enhanced forms of SVM It also introduces interpretable ML approaches including partial dependence plot accumulated local effects and SHapley additive exPlanations SHAP Also several methods for developing ML algorithms including K fold cross validation CV Taguchi

a technique for order preference by similarity to ideal solution TOPSIS and multi objective particle swarm optimization MOPSO are proposed These algorithms are implemented to improve the applications of gridshell structures using a comprehensive representation of ML models This research introduces novel frameworks for shape prediction form finding structural performance assessment and shape optimization of lifting self forming GFRP elastic gridshells using ML methods This book will be of interest to researchers and academics interested in advanced design methods and ML technology in architecture engineering and construction fields

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