

# **FREE ACCESS TEXTILE COMPOSITES AND INFLATABLE STRUCTURES COMPUTATIONAL METHODS IN APPLIED SCIENCES**

## **Textile Composites and Inflatable Structures**

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**

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.

## **Flexible Forming for Fluid Architecture**

This book on flexible formwork for fluid architecture is a multi-faceted research that covers a broad field: from design to material and technology, and from history to future developments. It offers a pragmatic approach that can be extended with more cases, materials, techniques and methods for fluid architecture, and provides a better understanding of the main aspects of fluid architecture and to help them find the most suitable combinations of all aspects. The book is a challenging experience with many new discoveries, including two patents: one on moulding of fluid surfaces and one on 3D printing of fibre-reinforced ice. It also features two world records: the larges span (30 meters) and the highest thin shell structure (30,5 meters) in ice as well as a method for the construction of a fully laminated shell structure in insulated glass.

## **Interior Textiles**

This book provides an overview of the types of textiles used within the interior textile sector and key technological developments and safety issues affecting the industry. An understanding of these topics enables

the designer or manufacturer to select the most appropriate fabrics for interior applications. The first group of chapters reviews types and selection of materials for interior textiles, including natural and synthetic fibres as well as knitted, woven and nonwoven fabrics. Further chapters review surface design of interior textiles and the use of textiles in carpets and floor coverings. The second part of the book discusses developments in such areas as joining furniture fabrics, the use of sustainable and recycled textiles in interior applications, using interior textiles to minimise indoor environmental pollution, flame retardant materials and innovative textiles for seating. Interior textiles: design and developments is an important text for manufacturers, designers and buyers of interior textiles as well as being a valuable resource for students and academics studying interior design and materials. Provides a comprehensive review of the type of textiles used within the interior textile sector Considers environmental issues in interior textiles assessing different types of sustainable and recycled textiles Explores the important issues of surface design and flammability testing

## **Materials Engineering and Technologies for Production and Processing IV**

The presented volume contains the scientific articles selected by results of the 4th International Conference on Industrial Engineering (4th ICIE, May 15-18, 2018, Moscow, Russian Federation) which reflect the current achievements in area of materials science, metallurgy, metalworking technologies, polymers, composite materials, ceramics, building materials and chemical technologies. We hope that this collection will be useful and interesting for engineers and researchers from mentioned branches of the engineering science.

## **Shell and Membrane Theories in Mechanics and Biology**

This book presents the latest results related to shells characterize and design shells, plates, membranes and other thin-walled structures, a multidisciplinary approach from macro- to nanoscale is required which involves the classical disciplines of mechanical/civil/materials engineering (design, analysis, and properties) and physics/biology/medicine among others. The book contains contributions of a meeting of specialists (mechanical engineers, mathematicians, physicists and others) in such areas as classical and non-classical shell theories. New trends with respect to applications in mechanical, civil and aero-space engineering, as well as in new branches like medicine and biology are presented which demand improvements of the theoretical foundations of these theories and a deeper understanding of the material behavior used in such structures.

## **Composites with Micro- and Nano-Structure**

This book presents new results in the knowledge and simulations for composite nano-materials. It includes selected, extended papers presented in the thematic ECCOMAS conference on Composites with Micro- and Nano-Structure (CMNS) – Computational Modelling and Experiments. It contains atomistic and continuum numerical methods and experimental validation for composite materials reinforced with particles or fibres, porous materials, homogenization and other important topics.

## **Computational Plasticity**

This book contains 14 invited contributions written by distinguished authors who participated in the VIII International Conference on Computational Plasticity held at CIMNE/UPC ([www.cimne.com](http://www.cimne.com)) from 5-8 September 2005, in Barcelona, Spain. The chapters present recent progress and future research directions in the field of computational plasticity.

## **Woven Composites**

This unique volume presents the latest developments in the field of advanced woven and braided textile

composites, with particular emphasis on computational approaches (finite elements, meshfree). Advanced textile composites such as woven, braided, knitted and stitched fabrics are increasingly being used as structural materials in industrial applications due to their efficiency at reinforcing more directions within a single layer and their ability to conform to surfaces with complex curvatures. Furthermore, textile composites provide improved impact resistance, exceptional thermal, fatigue and corrosion resistance, as well as being easier and cheaper to handle and fabricate compared to UD composites. Topics covered in this book include: 2D and 3D plain, twill, satin woven and braided composites, micro-level and macro-level modelling, failure mechanisms, theoretical studies on cryogenic crack behaviour and the specific deformation modes of textile reinforcements, which include the kinematic and hypoelastic models. This book will be particularly relevant to professional engineers, graduate students and researchers interested in composite materials.

## **New Trends in Thin Structures: Formulation, Optimization and Coupled Problems**

The main focus of the book is to convey modern techniques applied within the range of computational mechanics of beams, plates and shells. The topics of interest are wide ranging and include computational aspects of nonlinear theories of shells and beams including dynamics, advanced discretization methods for thin shells and membranes, shear-deformable shell finite elements for SMA composite devices, optimization and design of shells and membranes, fluid-structure interaction with thin-walled structures, contact mechanics with application to thin structures and edge effects in laminated shells.

## **Structures and Architecture**

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 architects and structural engineers to further collaborate in this process, exploiting together new concepts, applications and challenges. This set of book of abstracts and full paper searchable CD-ROM presents selected papers presented at the 3rd International Conference on Structures and Architecture Conference (ICSA2016), organized by the School of Architecture of the University of Minho, Guimarães, Portugal (July 2016), to promote the synergy in the collaboration between the disciplines of architecture and structural engineering. The set addresses all major aspects of structures and architecture, including building envelopes, comprehension of complex forms, computer and experimental methods, concrete and masonry structures, educating architects and structural engineers, emerging technologies, glass structures, innovative architectural and structural design, lightweight and membrane structures, special structures, steel and composite structures, the borderline between architecture and structural engineering, the history of the relationship between architects and structural engineers, the tectonics of architectural solutions, the use of new materials, timber structures and more. The contributions on creative and scientific aspects of the conception and construction of structures, on advanced technologies and on complex architectural and structural applications represent a fine blend of scientific, technical and practical novelties in both fields. This set is intended for both researchers and practitioners, including architects, structural and construction engineers, builders and building consultants, constructors, material suppliers and product manufacturers, and other experts and professionals involved in the design and realization of architectural, structural and infrastructural projects.

## **III European Conference on Computational Mechanics**

III European Conference on Computational Mechanics: Solids, Structures and Coupled Problem in Engineering Computational Mechanics in Solid, Structures and Coupled Problems in Engineering is today a mature science with applications to major industrial projects. This book contains the edited version of the Abstracts of Plenary and Keynote Lectures and Papers, and a companion CD-ROM with the full-length papers, presented at the III European Conference on Computational Mechanics: Solids, Structures and Coupled Problems in Engineering (ECCM-2006), held in the National Laboratory of Civil Engineering,

Lisbon, Portugal 5th - 8th June 2006. The book reflects the state-of-art of Computation Mechanics in Solids, Structures and Coupled Problems in Engineering and it includes contributions by the world most active researchers in this field.

## **Textile Asia**

Keeping up to date with advances in material science and applied engineering is essential for those working in the field if they are to understand and tackle the challenges they face in an efficient manner and adopt the best and most appropriate solutions available. This book presents the proceedings of MMSE 2022, the 8th International Conference on Advances in Machinery, Materials Science and Engineering Application, held as a hybrid event (both in-person and online) in Wuhan, China, on 23 and 24 July 2022. For the past 12 years, the MMSE international conferences have collated recent advances and experiences, identified emerging trends in technology and encouraged lively debate between students, specialists, engineers and associations from around the world, all of which have had a positive impact in helping to address the world's engineering challenges. The book contains 121 papers, selected by means of a rigorous international peer-review process by editors and reviewers from the 215 submissions received. Topics covered include the latest advancements in applied mechanics, intelligent manufacturing technology, mechanical and electromechanical engineering, heat transfer, combustion, advanced materials sciences, industrial applications, applied mathematics, simulation and interdisciplinary engineering. Presenting a wealth of exciting ideas for solving real problems in the real world and opening novel research directions, the book will be of interest to materials specialists and engineers from both academia and industry everywhere.

## **Advances in Machinery, Materials Science and Engineering Application**

This book presents the textile-, mathematical and mechanical background for the modelling of fiber based structures such as yarns, braided and knitted textiles. The hierarchical scales of these textiles and the structural elements at the different levels are analysed and the methods for their modelling are presented. The author reports about problems, methods and algorithms and possible solutions from his twenty year experience in the modelling and software development of CAD for textiles.

## **Topology-Based Modeling of Textile Structures and Their Joint Assemblies**

The broad use of composite materials and shell structural members with complex geometries in technologies related to various branches of engineering has gained increased attention from scientists and engineers for the development of even more refined approaches and investigation of their mechanical behavior. It is well known that composite materials are able to provide higher values of strength stiffness, and thermal properties, together with conferring reduced weight, which can affect the mechanical behavior of beams, plates, and shells, in terms of static response, vibrations, and buckling loads. At the same time, enhanced structures made of composite materials can feature internal length scales and non-local behaviors, with great sensitivity to different stacking sequences, ply orientations, agglomeration of nanoparticles, volume fractions of constituents, and porosity levels, among others. In addition to fiber-reinforced composites and laminates, increased attention has been paid in literature to the study of innovative components such as functionally graded materials (FGMs), carbon nanotubes (CNTs), graphene nanoplatelets, and smart constituents. Some examples of smart applications involve large stroke smart actuators, piezoelectric sensors, shape memory alloys, magnetostrictive and electrostrictive materials, as well as auxetic components and angle-tow laminates. These constituents can be included in the lamination schemes of smart structures to control and monitor the vibrational behavior or the static deflection of several composites. The development of advanced theoretical and computational models for composite materials and structures is a subject of active research and this is explored here for different complex systems, including their static, dynamic, and buckling responses; fracture mechanics at different scales; the adhesion, cohesion, and delamination of materials and interfaces.

# **Advanced Theoretical and Computational Methods for Complex Materials and Structures**

This book brings together some 20 chapters on state-of-the-art research in the broad field of computational plasticity with applications in civil and mechanical engineering, metal forming processes, geomechanics, nonlinear structural analysis, composites, biomechanics and multi-scale analysis of materials, among others. The chapters are written by world leaders in the different fields of computational plasticity.

## **Advances in Computational Plasticity**

The main objective of this thesis was to model inflatable beams made from orthotropic woven fabric composites. The static aspects were investigated in this report. Before planning to develop these models, it was necessary to know all the parameters which have a direct effect on the effective mechanical properties these composites. Thus, a micro mechanical model was performed for predicting the effective mechanical properties. The proposed model was based on the analysis of the representative volume element (RVE). The model took into account not only the mechanical properties and volume fraction of each components in the RVE but also their geometry and architecture. Each yarn in the RVE was modelled as a transversely isotropic material (containing fibres and resin) using the concentric cylinders model (CCIVI). A second volumetric averaging which took into account the volume fraction of each constituent (warp yarn, weft yarn and resin), was performed. The model was validated favorably against experimental available data. A parametric study was conducted in order to investigate the effects of various geometrical and mechanical parameters on the elastic properties of these composites. In the structural analysis, a 3D Timoshenko airbeam with a homogeneous orthotropic woven fabric (OWF) was addressed. The model took into account the geometrical nonlinearities and the inflation pressure follower force effect. The analytical equilibrium equations were performed using the total Lagrangian form of the virtual work principle. As these equations were nonlinear, in a first approach, a linearization was performed at the prestressed reference configuration to obtain the equations devoted to linearized problems. As example, the bending problem was investigated. Four cases of boundary conditions were treated and the deflections and rotations results improved the existing models in the case of isotropic fabric. The wrinkling load in every case was also proposed. In a second approach, the nonlinear equilibrium equations of the 3D Timoshenko airbeam were discretized by the finite element method. Two finite element solutions were then investigated : finite element solutions for linearized problems which were obtained by the means of the linearization around the prestressed reference configuration of the nonlinear equations and nonlinear finite element solutions which were performed by the use of an optimization algorithm based on the Quasi-Newton method. As an example, the bending problem of a cantilever inflated beam under concentrated load was considered and the deflection results improve the theoretical models. As these beams are made from fabric, the beam models were validated through their comparison with a 3D thin-shell finite element model. The influence of the material effective properties and the inflation pressure on the beam response was also investigated through a parametric study. The finite element solutions for linearized problems were found to be close to the theoretical linearized results. On the other hand, the results for the nonlinear finite element model were shown to be close to the results for the linearized finite element model in the case of high mechanical properties and the non linear finite element model was used to improve the linearized model when the mechanical properties of the fabric are low.

## **Computational Mechanics**

Collection of selected, peer reviewed papers from the International Conference on Computational Methods in Applied Sciences (CMAS 2014), December 17-18, 2014, Kraków, Poland. The 18 papers are grouped as follows: I. Computational Science as a Key Element of Engineering Progress; II. Computational Methods and its Application; III. Applied Mechanics and Terotechnology; IV. Biotechnology Applications

## **Numerical Modelling of Inflatable Structures Made of Orthotropic Technical Textiles**

Mechanical properties of composite materials can be improved by tailoring their microstructures. Optimal microstructures of composites, which ensure desired properties of composite materials, can be determined in computational experiments. The subject of this book is the computational analysis of interrelations between mechanical properties (e.g., strength, damage resistance stiffness) and microstructures of composites. The methods of mesomechanics of composites are reviewed, and applied to the modelling of the mechanical behaviour of different groups of composites. Individual chapters are devoted to the computational analysis of the microstructure- mechanical properties relationships of particle reinforced composites, functionally graded and particle clusters reinforced composites, interpenetrating phase and unidirectional fiber reinforced composites, and machining tools materials.

## **Computational Methods in Applied Sciences**

This book constitutes the refereed proceedings of the 4th International Workshop on Biomedical Image Registration, WBIR 2010, held in Lübeck, Germany, in July 2010. The 17 revised full papers and 7 revised poster papers presented were carefully reviewed and selected for inclusion in the book. The papers cover all areas of biomedical image registration and are organized in topical sections on biomedical applications, evaluation, methods of registration, and model based registration.

## **Computational Mesomechanics of Composites**

This unique volume presents the latest developments in the field of advanced woven and braided textile composites, with particular emphasis on computational approaches (finite elements, meshfree). Advanced textile composites such as woven, braided, knitted and stitched fabrics are increasingly being used as structural materials in industrial applications due to their efficiency at reinforcing more directions within a single layer and their ability to conform to surfaces with complex curvatures. Furthermore, textile composites provide improved impact resistance, exceptional thermal, fatigue and corrosion resistance, as well as being easier and cheaper to handle and fabricate compared to UD composites. Topics covered in this book include: 2D and 3D plain, twill, satin woven and braided composites, micro-level and macro-level modelling, failure mechanisms, theoretical studies on cryogenic crack behaviour and the specific deformation modes of textile reinforcements, which include the kinematic and hypoelastic models. This book will be particularly relevant to professional engineers, graduate students and researchers interested in composite materials.

## **Biomedical Image Registration**

*Advances in Modeling and Simulation in Textile Engineering: New Concepts, Methods, and Applications* explains the advanced principles and techniques that can be used to solve textile engineering problems using numerical modeling and simulation. The book draws on innovative research and industry practice to explain methods for the modeling of all of these processes, helping readers apply computational power to more areas of textile engineering. Experimental results are presented and linked closely to processes and methods of implementation. Diverse concepts such as heat transfer, fluid dynamics, three-dimensional motion, and multi-phase flow are addressed. Finally, tools, theoretical principles, and numerical models are extensively covered. Textile engineering involves complex processes which are not easily expressed numerically or simulated, such as fiber motion simulation, yarn to fiber formation, melt spinning technology, optimization of yarn production, textile machinery design and optimization, and modeling of textile/fabric reinforcements. Provides new approaches and techniques to simulate a wide range of textile processes from geometry to manufacturing Includes coverage of detailed mathematical methods for textiles, including neural networks, genetic algorithms, and the finite element method Addresses modeling techniques for many different phenomena, including heat transfer, fluid dynamics and multi-phase flow

## **International Congress Calendar**

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.

## **Woven Composites**

*Advances in Manufacturing and Processing of Materials and Structures* cover the latest advances in materials and structures in manufacturing and processing including additive and subtractive processes. It's intended to provide a compiled resource that reviews details of the advances that have been made in recent years in manufacturing and processing of materials and structures. A key development incorporated within this book is 3D printing, which is being used to produce complex parts including composites with odd shape fibers, as well as tissue and body organs. This book has been tailored for engineers, scientists and practitioners in different fields such as aerospace, mechanical engineering, materials science and biomedicine. Biomimetic principles have also been integrated. Features Provides the latest state-of-the art on different manufacturing processes, including a biomimetics viewpoint Offers broad coverage of advances in materials and manufacturing Written by chapter authors who are world-class researchers in their respective fields Provides in-depth presentation of the latest 3D and 4D technologies related to various manufacturing disciplines Provides substantial references in each chapter to enhance further study

## **Scientific and Technical Aerospace Reports**

Wood is usually perceived as a traditional material. However, its properties make it possible to design complex origami-, ribbed-, and fabric structures. The wood laboratory of the EPF Lausanne is testing the research results in prototypes, which demonstrate the potential applications in large-scale timber buildings. By exploring the unused potential of wood, this book provides an inspiring outlook on a new generation of timber buildings.

## **Advances in Modeling and Simulation in Textile Engineering**

Fabric-cast concrete involves casting concrete in forms made with flexible formwork. This provides the potential to produce forms that are both structurally efficient and architecturally exciting in a relatively inexpensive and practical manner. By careful shaping of the fabric it is possible to produce complex shapes that would otherwise be difficult and expensive to produce using conventional formwork systems. This book contains six essays that describe the collaboration between the Universities of Edinburgh and East London, together with the Centre for Architectural and Structural Technology (CAST) at the University of Manitoba, in their detailed and practical research into concrete casting and formwork. Richly illustrated with photographs and diagrams and containing new and innovative research this book offers the architect, engineer and student inspiration and technical guidance in this re-emerging material.

## **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**

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