

CONCEPTUAL DESIGN AND ANALYSIS OF LONG SPAN STRUCTURES

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Key words: *structural architecture, wide span structures , reliability, experimental analysis, monitoring.*

ABSTRACT

Long span roof are today widely applied for sport, social, industrial, ecological and other activities. The experience collected in last decades identified structural typologies as space structures, cable structures, membrane structures and new - under tension - efficient materials which combination deals with lightweight structural systems, as the state of art on long span structural design. In order to increase the reliability assessment of wide span structural systems a knowledge based synthetic conceptual design approach is recommended. Theoretical and experimental in scale analysis, combined with a monitoring control of the subsequent performance of the structural system, can calibrate mathematical modelling and evaluate long term sufficiency of design.

INTRODUCTION

Long span structures are today widely applied mainly for sport buildings as:

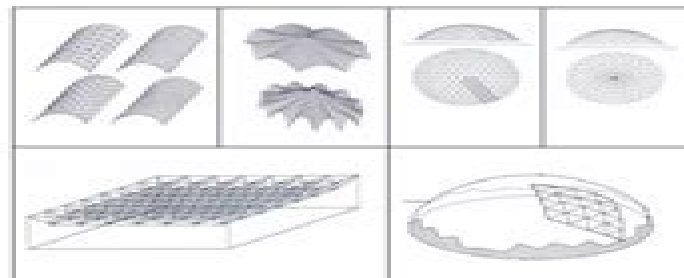
- Stadia
- Sport halls
- Olympic swimming pools
- Ice tracks and skating rinks
- Indoor athletics

The state of the art trend on widespan enclosures: the lightweight structures - from compression to tension.

According to the state of the art, the more frequently typologies and materials used for wide span enclosures are:

Space structures

- single layer grids
- double and multi layer grids
- single and double curvature space frames [1]



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A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, overlaid by a semi-transparent red circular shape.

Conceptual Design And Analysis Of Membrane Structures:

Structures & Architecture Paulo J. da Sousa Cruz, 2010-07-02 Although Architecture and Structural Engineering have both had their own historical development their interaction has led to many fascinating and delightful structures over time To bring this interaction to a higher level there is the need to stimulate the inventive and creative design of architectural structures and to persuade architects and s Conceptual Design of Structures ,1996 **Membranes for Structures** Josep Ignasi de Llorens, 2025-06-27 A growing use of membranes for construction purposes has recently been encouraged by their environmentally friendly characteristics To offer a timely and extensive research grounded compendium on structures made with fabrics and foils the most relevant facets of the state of the art are covered in two sister titles **Membranes for Structures Applications** is steeped in fascinating functional examples in fact a selection of detailed case studies is presented in Part One preceded by the description of two relevant historical antecedents which are the circus tent and the envelopat The particular case of the successful spoked wheel structural system for the construction of large stadiums is the subject of Part Two including descriptions of four significant case studies Two growing fields of application are the focus of Part Three which is dedicated to fa ades that give buildings a unique appearance and Part Five which addresses replacements renovations and refurbishments activities that are frequently encountered in today s construction industry And Part Four presents the latest application developments in different countries across the globe with achievements in China Latin and North America Japan and Europe being highlighted The well amalgamated contributions authored by international experts produce a comprehensive reference to keep students and researchers as well as industry professionals and various other stakeholders abreast with the latest advancements Incorporates recent developments that are poorly documented in other literature available Describes functional structural and decorative applications of membranes in buildings and includes various relevant case studies from around the world Published alongside its sister title **Membranes for Structures Fundamentals** ISBN 9780443224072 **Scientific and Technical Aerospace Reports** ,1982 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 □□□□□□□□□□ □□□□,1999-03 Summary Buildings with membrane structures from all over the world have been gathered in this single volume The book is not simply a collection of works It shows through sketches concept drawings detail drawings and photographs of completed buildings how architects and structural designers conceived their ideas and how construction companies made those ideas real It would not be an exaggeration to state that this book establishes once and for all the place of buildings with membrane structures in architectural history Publisher description

Information of the Institute for Lightweight Structures and Conceptual Design (ILEK), University of Stuttgart Universität Stuttgart. Institut für Leichte Flächentragwerke,1972 *Conceptual Design of Membrane Structures* Vittorio Carlos Agnesi,1998 *NASA SP.* ,1990 *Technology for Large Space Systems* ,1983 **Civil-Comp 89** B. H. V. Topping,1989 **Spatial Structures: Heritage, Present and Future** Gian Carlo Giuliani,1995 *Innovative Large Span Structures* Canadian Society for Civil Engineering,International Association for Shell and Spatial Structures,1992 *Innovative Surface Structures* Martin Bechthold,2008 This indispensable reference is an in depth introduction to the fundamentals of the design of surface structures It looks at some of the most innovative structures and technologies to date demonstrating their use of materials in creating successful surface architecture **Current and Emerging Technologies of Shell and Spatial Structures** ,1998 **The 34th AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dynamics and Materials Conference, Adaptive Structures Forum: 93-1370 - 93-1445** ,1993 **Space Structures 5** G. A. R. Parke,P. Disney,2002 **Energy Research Abstracts** ,1977 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number indexes **Bulletin of the International Association for Shell and Spatial Structures** International Association for Shell and Spatial Structures,1977 *Space Station Systems: A Bibliography with Indexes (supplement 7)* ,1988

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