



Fig 3. Deployment sequence of NASA's STAC-BEAM geometry model.

The team aims to define a morphological design method that can generate deployable structures based on crystallographic symmetry and on variants of three NASA structures, the PACTRUSS, the X-BEAM and the STAC-BEAM. The latter two are used as extendable support structures for platforms such as solar concentrators and phased arrays. In order to define their structural morphology the team develops a four-letter notation (t, b, v, d) that corresponds to the four structural component groups of a cubic cell. The first letter (t) corresponds to the top horizontal members, the second (b) to the bottom horizontal members, the third (v) to the vertical members and the fourth (d) to the diagonal members.

The notation then describes whether the member is rigid (r) or hinged (h). The morphological notation for the PACTRUSS seen in figure 1 is (h, h, r, h) (representing hinged top members, hinged bottom members, rigid vertical members and hinged diagonal members).

Deployable Structures Small Architecture Series

Santiago Hernández,A. N. Fontán



Deployable Structures Small Architecture Series:

Origami8, Volume I Guoxing Lu,Zhong You,Michael Assis,2026-01-01 These four volumes of proceedings contain 126 papers contributed to the 8th International Meeting on Origami Science Mathematics and Education 8OSME held on 16 18 July 2024 at Swinburne University of Technology in Melbourne Australia The papers represent current work in different disciplines of origami and they are grouped into four subject themes Volume 1 Engineering I Volume 2 Engineering II Volume 3 Mathematics Computation History and Mental Health and Volume 4 Design and Education We witness increasing interests in origami from researchers practitioners and artists Of a special note is the rapidly growing research in origami engineering a distinctive field with fundamental concepts and applications related to space mechanical material medical and structural engineering etc Participants of 8OSME should find great passion and opportunity of collaborations across disciplines of origami We hope these four volumes will inspire not just currently active researchers and artists but also the next generation of origami scientists mathematicians engineers designers historians and teachers Chapter Adding more bite to the origami chomper is available open access under a Creative Commons Attribution 4 0 international License via link [springer.com](https://www.springer.com)

Handbook of Research on Methodologies for Design and Production Practices in Interior Architecture Garip, Ervin,Garip, S. Banu,2020-11-20 Studio environments can be defined as multi dimensional integrated production spaces where basic design trainings take place and where design issues including theoretical notions such as sociological political phenomenological and other dimensions are discussed Present approaches within the literature and social media on this topic gives cause for students to evaluate their future professions over finished and pictorial products rather than ontological and processual means While there are many resources available on the present approaches of aesthetics and visuality of interior spaces there is not much research available on new design methodologies related design processes and new applied methods in interior arcitecture Based on different contexts these methods of design practice have the potential to enrich design processes and create multiple discussion platforms within project studios as well as other design media These different representations and narration methods for research in the context of interior architecture can be effectively used in design processes The Handbook of Research on Methodologies for Design and Production Practices in Interior Architecture proposes new design methodologies and related design processes and introduces new applied method approaches while presenting alternative methods that have been used within design studios in the field of interior architecture The chapters deal with four major sections the design process and interdiciplinary approaches then scenario development and content followed by material texture and atmosphere and concluding with new approaches to design While highlighting topics such as spatial perception design strategies architectural atmosphere and design thinking this book is of interest to architects interior designers practitioners stakeholders researchers academicians and students looking for advanced research on the new design metholodologies and processes for interior architecture

Phyigital Intelligence Chao Yan,Hua Chai,Tongyue

Sun, Philip F. Yuan, 2024-01-03 This open access book is a compilation of selected papers from 2023 DigitalFUTURES The 5nd International Conference on Computational Design and Robotic Fabrication CDRF 2023 The work focuses on novel techniques for computational design and robotic fabrication The contents make valuable contributions to academic researchers designers and engineers in the industry As well readers will encounter new ideas about understanding intelligence in architecture *Structures Under Shock and Impact VI* Norman Jones, C. A. Brebbia, 2000 Annotation Reflecting the broad range of interest in this extremely active field this book contains contributions originally presented at the sixth international conference on this subject **Structural Design of Retractable Roof Structures** Kazuo Ishii, 2000 Presenting state of the art data and recommendations for retractable roof structures this book is based on the findings of a working group established by the International Association of Shell and Spatial Structures It discusses non collapsible rigid frame type structures with rigid or flexible material stretched between frames and folding membrane types such as tents and pneumatics *Spatial Structures: Heritage, Present and Future* Gian Carlo Giuliani, 1995 **Deployable Structures** Carlos Henrique Hernández Merchan, 1987 This thesis has the purpose of describing the meaning and applications of deployable structures making emphasis in the scissor hinged and sliding mechanisms and the development of new geometries details and mechanisms that make these systems buildable and useful for architectural applications A deployable structure is one that can be transformed with the addition of an energy input from a closed stage or compact configuration to a predetermined stable expanded form Deployable structures are suitable in response to the following needs a A situation in which there is a need to create enclosed or protected space for a short period of time and then move that space to another location for erection or storage b Difficult access places and or lack of labor c Special applications equipment and shelters for special equipment which can not be transported in full open size and needs to be erected in a very quick way d Need to enclose space due to variable weather conditions e Situations of high risk with elevated labor costs hostile environments costly transportation f Construction aid g As a construction method There are many mechanisms which fall into the category of deployable structures but we can group them into two general categories A Struts Structures scissor hinged tensile and sliding mechanisms etc B Surface Structures folded inflatable telescopic etc The general characteristic of group A is that these structures are made out of struts which commonly work as compression tension or bending components connected by joints or hinges In Group B stresses are carried by surfaces In some cases a continuous surface carries only tension forces like in pressurized or inflatable construction other structures are made out of small surfaces or planes joined together by some usually flexible means of forming a continuous structure Deployability implies an extra cost over an assembly structure due to more sophisticated expensive movable connections locking mechanisms and deployment mechanisms This extra cost has to be balanced by the structure s greater potential for adaptability mobility and labor saving construction Advanced Telescope Design, Fabrication, and Control William Roybal, 1999 **Computer Aided Optimum Design of Structures VII**

Santiago Hernández, C. A. Brebbia, 2001 Demonstrating the high level of maturity reached in design optimisation methodologies this book contains most of the papers presented at the seventh international conference on Computer Aided Optimum Design of Structures *Practical Applications of Design Optimization* Santiago Hernández, A. N. Fontán, 2002 The scientific field of design optimization has evolved tremendously both in terms of theory and of the software available to support it Architecture ,1994-05 **Structures and Architecture** Mario Rinke, Marie Frier Hvejsel, 2025-06-23 Structures and Architecture REstructure REmaterialize REthink REuse contains the contributions to the 6th International Conference on Structures and Architecture ICSA 2025 Antwerp Belgium 8-11 July 2025 As a response to the pressing global climate and energy crisis and with new settings and tools the design and construction of our built environment needs reconsideration and extension The papers call for a re imagination of current practices regarding structures and architecture The volumes of the series are published every three years in tandem with the conferences organised by the International Association of Structures and Architecture They aim to reach a global audience of researchers practitioners and students including architects structural and construction engineers builders and building consultants constructors material suppliers planners urban designers anthropologists economists sociologists artists product manufacturers and other professionals involved in the design and realisation of architectural structural and infrastructural projects **A Collection of Technical Papers** ,2001 *Deployable Structures* S. Pellegrino, 2014-05-04 Deployable structures can vary their shape automatically from a compact packaged configuration to an expanded operational configuration The first properly engineered deployable structures were used as stabilization booms on early spacecraft Later on more complex structures were devised for solar arrays communication reflectors and telescopes In other fields there have been a variety of developments including retractable roofs for stadia foldable components for cars portable structures for temporary shelters and exhibition displays Three main themes are discussed in this book concepts working principles and mechanics of deployable structures both in engineering and biology in addition theory of foldable bar structures and application to deployable tensegrities formulation of large rotation analysis of deployable structures and finite element simulation methods *Structures and Architecture* Paulo J. Cruz, 2016-10-14 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 International Aerospace Abstracts ,1999 **INTELEC'03** ,2003 **Mobile and**

Rapidly Assembled Structures II F. Escrig, C. A. Brebbia, 1996 Structures which move in the course of normal use or which have to be assembled at high speed on a relatively unprepared site offer a particular challenge to the designer The interaction between the structure and the mechanism by which it moves is important for mobile frameworks The speed of assembly and the implications to logistics materials and cost is a major factor in many structures This book contains the proceedings of the Second International Conference on Mobile and Rapidly Assembled Structures MARAS 96 held in Seville in June 1996 The book covers a range of topics including Deployable Structures Fabric Architecture Materials Architectural Concepts Geometry Bridges Transport Towers and Masts and Retractable Structures The proceedings will be of interest to engineers architects and researchers concerned with the design analysis manufacture and erection of rapidly assembled structures BOOK JACKET Title Summary field provided by Blackwell North America Inc All Rights Reserved *Government Reports Announcements & Index* ,1990-12 **Publications** ,1993

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