

# The Art of Tensegrity

Kenneth Snelson

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When Professor Motro invited me to contribute something for a special tensegrity issue of the Journal I was not sure what I would be able to write that might interest architects and engineers. As an artist I work directly from small scale models, quite different from the way other professions analyze tensegrity structures mathematically. My large works are required only to stand up by themselves and survive out of doors which they have done extremely well. "Easy Landing" on Baltimore Maryland's Inner Harbor (Fig. 1) and "Free Ride Home" at Storm King Art Center have stood without need of repair for more than thirty-five years. Many more of my sculptures can be seen at: [www.kennethsnelson.net](http://www.kennethsnelson.net)

Because so many papers have been written about tensegrity's performance and its proposed uses what I can add is the history of early discoveries; to relate some of what I learned for the first time over a half-a-century ago.

I want to be clear that I am writing about endoskeletal floating-compression structures not hybrids that include bicycle wheels, spider webs and WWI aircraft construction. A Google "tensegrity" search turns up nearly a half-million entries, many of which have nothing to do with discontinuous compression, continuous tension, structures.



Figure 1. EasyLanding

The tensegrity story is likely to begin with the question who discovered what and when. In 1996, Volume 11 Nos. 1 & 2 of this Journal, the different views of Buckminster Fuller, David George Emmerich and Kenneth Snelson were thoroughly debated. I told of Mr. Fuller's 1959 New York Museum of Modern Art exhibition when he finally credited me for discovering the tensegrity principle.

That local public acknowledgment offered me the freedom to go back to where I had begun and to explore whatever might still be left to discover about tensegrity. Mr. Fuller had always concentrated on spheres based on the geometry of his geodesic dome. His audiences saw models and pictures of the spheres as well as his "mast" adapted from my original X-Piece. Though my 1948 plywood and monofil sculpture (Fig 2) had given birth to "tensegrity", Mr. Fuller chose not to describe it in his lectures or in his writing. Most remarkably, none of his students in schools where he taught had discovered it on their



Figure 2. WoodX-Column1948

# Tensegrity Volume 2

**Jean-François Gabriel**



## **Tensegrity Volume 2:**

**Clinical Application of Neuromuscular Techniques, Volume 2 E-Book** Leon Chaitow, Judith DeLany, 2011-07-05

Clinical Application of Neuromuscular Techniques Volume 2 The Lower Body discusses the theory and practice of the manual treatment of chronic pain especially with regards to the soft tissues of the lower body Authored by experts of international renown this highly successful book provides a structural review of each region including ligaments and functional anatomy and includes step by step protocols that address each muscle of a region The volume now comes with an EVOLVE site for instructors who can download the full text and images for teaching purposes Provides a comprehensive one stop volume on the treatment of somatic pain and dysfunction Designed and written to meet the needs of those working with neuromuscular dysfunction in a variety of professions All muscles covered from the perspective of assessment and treatment of myofascial pain Describes normal anatomy and physiology as well as the associated dysfunction Gives indications for treatments and guidance on making the appropriate treatment choice for each patient Combines NMT MET PR and much more to give a variety of treatment options for each case Describes the different NMT techniques in relation to the joint anatomy involved Practical step by step descriptions provided to make usage easy Includes acupuncture hydrotherapies and nutritional support as well as guidance for the patient in the use of self help approaches Contains up to date evidence based content Presents the latest research findings underpinning the practice of NMT methodology from differing areas of practice Presents the increasingly refined ways of using the variety of MET methods to allow the reader to safely apply them in a variety of settings Includes access to new video clips presenting practical examples of the NMTs explored in the book **Tensegrity Systems**

Fernando Fraternali, Julian J. Rimoli, 2025-03-06 This book illustrates the unique mechanical behaviors of tensegrity systems and their applications in mechanical metamaterials space structures and biomechanical models It demonstrates that by controlling the mechanical response of tensegrity structures through internal and external prestress it is possible to adjust the speed of mechanical waves within these systems creating tunable bandgap structures Furthermore the geometrically nonlinear response exhibited by several tensegrity systems allows for the support of either compression or rarefaction solitary wave dynamics These behaviors can be effectively utilized to design novel devices capable of focusing mechanical waves in narrow regions of space as well as innovative impact protection systems After an introduction to the basic concepts and calculation methods for tensegrity systems and their minimal mass design the chapters explore the metamaterial behaviors of tensegrity systems associated with bandgap and solitary wave dynamics present a mechanical model of flexible tensegrities illustrating how harnessing the buckling of bars in such systems can result in structures with exceptional energy absorption capabilities suitable for applications such as planetary landers or lattice metamaterials and discuss the extreme mechanical behaviors achievable in tensegrity inspired lattice structures exhibiting both soft and stiff deformation modes The last chapters address the multifaceted field of biotensegrity and provide an overview of current rapid prototyping techniques

for tensegrity systems along with a discussion of open questions and research opportunities in the field **Tensegrity Structures and their Application to Architecture** Valentín Gómez Jáuregui, 2020-11-06 Tensegrity structures are really intriguing bars floating in the air without any contact to a solid support attached only by wires to other bars that are also floating in the air The aim of this work is to serve as an introduction to such an atypical kind of structure It tries to explain everything about the controversial origins and polemic fatherhood tensegrities from various fields other than Architecture structural principles characteristics advantages and weakness precedent and current works and patents and finally some new proposals proving that it is possible to find some applications to architectural and engineering purposes In conclusion this work tries to be a guide and reference to a new world of structural possibilities that is blooming and finding its path

**Tensegrity Systems** Robert E. Skelton, Mauricio C. de Oliveira, 2009-06-04 This book discusses analytical tools for designing energy efficient and lightweight structures that embody the concept of tensegrity The book provides both static and dynamic analysis of special tensegrity structural concepts which are motivated by biological material architecture This is the first book written to attempt to integrate structure and control design Space Structures 5 G. A. R. Parke, P. Disney, 2002 These Proceedings are based on the Fifth International Conference on Space Structures organised by the University of Surrey Produced as a 2 volume set they contain original and innovative information on space structures from leading engineers and architects from around the world **Multiscale Lattices and Composite Materials: Optimal Design, Modeling and Characterization** Fernando Fraternali, Chiara Daraio, Julian J. Rimoli, 2019-11-26 IUTAM-IASS Symposium on Deployable Structures: Theory and Applications Sergio Pellegrino, Simon D. Guest, 2013-03-09 The IUTAM IASS Symposium on Deployable Structures Theory and Applications was held on 6-9 September 1998 in the Department of Engineering University of Cambridge The Scientific Committee was appointed jointly by the two sponsoring organisations the International Union for Theoretical and Applied Mechanics IUTAM and the International Association for Shell and Spatial Structures IASS Its membership was as follows S Pellegrino UK Chairman C R Calladine UK L B Freund USA M Geradin Belgium Y Hangai Japan K Kawata Japan B Kroplin Germany S Medwadowski USA M M Mikulas USA A Samartin Quiroga Spain F P Rimrott Canada T Tarnai Hungary The opening lecture of the Symposium was given by Professor C R Calladine It was followed by seven lecture sessions on Concepts Structural Mechanics Reflectors Deployable Structures in Nature Design and Testing Inflatable Structures Simulation plus a large interactive session during which posters and physical models were shown A discussion of topics suggested by the participants took place during the closing session There were 83 participants from 18 countries and a total of 50 papers were presented Financial support was generously provided by the International Union of Theoretical and Applied Mechanics IUTAM Additional support was provided by the British Council the British National Space Centre BNSC and Kluwer Academic Publishers We thank the members of the Scientific Committee for their willingness to referee to a high standard both the abstracts and the papers for the proceedings Professor G M L *Advances*

**Design, Modeling and Characterization** Fernando Fraternali, Chiara Daraio, Julian J. Rimoli, 2019-11-26 IUTAM-IASS Symposium on Deployable Structures: Theory and Applications Sergio Pellegrino, Simon D. Guest, 2013-03-09 The IUTAM IASS Symposium on Deployable Structures Theory and Applications was held on 6-9 September 1998 in the Department of Engineering University of Cambridge The Scientific Committee was appointed jointly by the two sponsoring organisations the International Union for Theoretical and Applied Mechanics IUTAM and the International Association for Shell and Spatial Structures IASS Its membership was as follows S Pellegrino UK Chairman C R Calladine UK L B Freund USA M Geradin Belgium Y Hangai Japan K Kawata Japan B Kroplin Germany S Medwadowski USA M M Mikulas USA A Samartin Quiroga Spain F P Rimrott Canada T Tarnai Hungary The opening lecture of the Symposium was given by Professor C R Calladine It was followed by seven lecture sessions on Concepts Structural Mechanics Reflectors Deployable Structures in Nature Design and Testing Inflatable Structures Simulation plus a large interactive session during which posters and physical models were shown A discussion of topics suggested by the participants took place during the closing session There were 83 participants from 18 countries and a total of 50 papers were presented Financial support was generously provided by the International Union of Theoretical and Applied Mechanics IUTAM Additional support was provided by the British Council the British National Space Centre BNSC and Kluwer Academic Publishers We thank the members of the Scientific Committee for their willingness to referee to a high standard both the abstracts and the papers for the proceedings Professor G M L *Advances*

*in Mechanism and Machine Science* Tadeusz Uhl, 2019-06-13 This book gathers the proceedings of the 15th IFToMM World Congress which was held in Krakow Poland from June 30 to July 4 2019 Having been organized every four years since 1965 the Congress represents the world's largest scientific event on mechanism and machine science MMS The contributions cover an extremely diverse range of topics including biomechanical engineering computational kinematics design methodologies dynamics of machinery multibody dynamics gearing and transmissions history of MMS linkage and mechanical controls robotics and mechatronics micro mechanisms reliability of machines and mechanisms rotor dynamics standardization of terminology sustainable energy systems transportation machinery tribology and vibration Selected by means of a rigorous international peer review process they highlight numerous exciting advances and ideas that will spur novel research directions and foster new multidisciplinary collaborations

**Handbook of Geometric Constraint Systems Principles** Meera Sitharam, Audrey St. John, Jessica Sidman, 2018-07-20 The Handbook of Geometric Constraint Systems Principles is an entry point to the currently used principal mathematical and computational tools and techniques of the geometric constraint system GCS It functions as a single source containing the core principles and results accessible to both beginners and experts The handbook provides a guide for students learning basic concepts as well as experts looking to pinpoint specific results or approaches in the broad landscape As such the editors created this handbook to serve as a useful tool for navigating the varied concepts approaches and results found in GCS research Key Features A comprehensive reference handbook authored by top researchers Includes fundamentals and techniques from multiple perspectives that span several research communities Provides recent results and a graded program of open problems and conjectures Can be used for senior undergraduate or graduate topics course introduction to the area Detailed list of figures and tables About the Editors Meera Sitharam is currently an Associate Professor at the University of Florida's Department of Computer Information Science and Engineering She received her Ph D at the University of Wisconsin Madison Audrey St John is an Associate Professor of Computer Science at Mount Holyoke College who received her Ph D from UMass Amherst Jessica Sidman is a Professor of Mathematics on the John S Kennedy Foundation at Mount Holyoke College She received her Ph D from the University of Michigan

Advanced Modelling Techniques in Structural Design Feng Fu, 2015-04-07 The successful design and construction of iconic new buildings relies on a range of advanced technologies in particular on advanced modelling techniques In response to the increasingly complex buildings demanded by clients and architects structural engineers have developed a range of sophisticated modelling software to carry out the necessary structural analysis and design work Advanced Modelling Techniques in Structural Design introduces numerical analysis methods to both students and design practitioners It illustrates the modelling techniques used to solve structural design problems covering most of the issues that an engineer might face including lateral stability design of tall buildings earthquake progressive collapse fire blast and vibration analysis non linear geometric analysis and buckling analysis Resolution of these design problems are

demonstrated using a range of prestigious projects around the world including the Buji Khalifa Willis Towers Taipei 101 the Gherkin Millennium Bridge Millau viaduct and the Forth Bridge illustrating the practical steps required to begin a modelling exercise and showing how to select appropriate software tools to address specific design problems **Funicular**

**Structures** Damon Bolhassani, 2025-04-16 Funicular structures are structural skeletons designed using methodologies that analyze the flow and direction of forces which can be categorized as compression tension or a combination of both They are not only elegant resembling naturally occurring forms but also highly efficient and can be built with minimal use of relatively low strength materials thus minimizing their negative environmental impact This book presents an in depth overview of the theoretical foundations and practical methods of designing funicular structures for maximum efficiency Beginning with a foundation and introduction to funicular structures for those new to the subject the book then provides in depth coverage of cables arches shells and vaults domes and spatial structures Chapters explain the theory behind funicular structures in 2D spatial funicular structures in 3D and examine their structural behavior Recent and historically famous structures from around the globe are analyzed and their potential design methods revealed through step by step visual explanations Structural analysis of funicular structures in different forms are also presented to demonstrate pitfalls and common errors Tracing the various methods of designing funicular structures including the latest computational tools this book provides a solid foundation for students of architecture structural design civil engineering landscape design and environmental design to embark on their own funicular design projects **ROMANSY 23 - Robot Design, Dynamics and Control** Gentiane

Venture, Jorge Solis, Yukio Takeda, Atsushi Konno, 2020-09-15 This book highlights the latest innovations and applications in robotics as presented by leading international researchers and engineers at the ROMANSY 2020 the 23rd CISM IFToMM Symposium on Theory and Practice of Robots and Manipulators The ROMANSY symposium is the first established conference that focuses on robotics theory and research rather than industrial aspects Bringing together researchers from a broad range of countries the symposium is held bi annually and plays a vital role in the development of the theory and practice of robotics as well as the mechanical sciences ROMANSY 2020 marks the 23rd installment in a series that began in 1973 The event was also the first topic specific conference of the IFToMM though not exclusively intended for the IFToMM community

Biotensegrity Graham Melvin Scarr, 2019-03-25 The emerging science of biotensegrity provides a fresh context for rethinking our understanding of human movement but its complexities can be formidable Biotensegrity The Structural Basis of Life Second edition now with full color illustrations throughout explores and explains the concept of biotensegrity and provides an understanding and appreciation of anatomy and physiology in the light of the latest research findings The reader learns that biotensegrity is an evolving science which gives researchers teachers and practitioners across a wide range of specialisms including bodyworkers and movement teachers a deeper understanding of the structure and function of the human body They are then able to develop clinical practice and skills in light of this understanding leading to more effective

therapeutic approaches with the aim of improved client outcomes The second edition provides expanded coverage of the developmental and therapeutic aspects of biotensegrity Coverage now includes A more thorough look at life s internal processes Closed kinematic chains as the new biomechanics Embryological development as an evolutionary process The human body as a constantly evolving system based on a set of unchanging principles Emergence heterarchies soft matter and small world networks A deeper look at what constitutes the therapeutic process *Everything Moves* Susan Lowell de Solórzano,2020-10-09 What a multi sensory pleasure in learning I will be a better teacher and better clinician using what I am learning from this book Carol M Davis DPT EdD MS FAPTA The emerging science of biotensegrity provides a fresh context for re thinking our understanding of human movement but its complexities can be formidable Bodywork and movement professionals looking for an accessible and relevant guide to the concept and application of biotensegrity need look no further than *Everything Moves* How biotensegrity informs human movement In order to work with our own bodies and the bodies of our students clients and teams most effectively we need to understand the nature of our human structure *Everything Moves* offers the enquiring bodyworker or movement professional who wants to take their understanding of how to apply biotensegrity in their work to the next level a practical and relatable guide to the biotensegral nature of our bodies in which all of the parts are one yet all are constantly changing Throughout *Everything Moves* concepts and ideas are presented with activities and exercises to make them tangible accessible and applicable The material presented is suitable for coaches and movement teachers new to biotensegrity as well as those with more advanced levels of understanding Whether your focus is performance sports Alexander Technique Feldenkrais yoga Pilates martial arts or dance any arena in which bodies move can be informed by *Everything Moves* **Beyond the Cube** Jean-François Gabriel,1997-08-12 This book offers an in depth look at space frame architecture including space frame projects completed by such notable architects as I M Pei Buckminster Fuller Philip Johnson and Louis Kahn Both theory and practice are included to offer a comprehensive overview of the history current use and future outlook for creating space frame structures The 15 distinguished contributors to this book have extensive background in the architecture of space frames and offer an international perspective on the subject The text is illustrated with hundreds of line drawings black and white photos and an eight page color insert *Yoga Journal* ,1996-04 For more than 30 years *Yoga Journal* has been helping readers achieve the balance and well being they seek in their everyday lives With every issue *Yoga Journal* strives to inform and empower readers to make lifestyle choices that are healthy for their bodies and minds We are dedicated to providing in depth thoughtful editorial on topics such as yoga food nutrition fitness wellness travel and fashion and beauty **Specialty Imaging: Temporomandibular Joint and Sleep-Disordered Breathing E-Book** Dania Tamimi,2023-04-08 Meticulously updated by board certified oral and maxillofacial radiologist Dr Dania Tamimi and her team of sub specialty experts *Specialty Imaging Temporomandibular Joint and Sleep Disordered Breathing* second edition is a comprehensive reference ideal for anyone involved with TMJ imaging or

SDB including oral and maxillofacial radiologists and surgeons TMJ craniofacial pain specialists sleep medicine specialists head and neck radiologists and otolaryngologists This detailed beautifully illustrated volume covers recent advances in the diagnosis and treatment of both the TMJ and SDB including how related structures are affected Employing a multifaceted multispecialty approach the clinical perspectives and imaging expertise of today s research specialists are brought together in a single image rich easy to read text Reflects the current emphasis on holistic diagnosis and treatment not just of the TMJ but of all related structures that can be adversely affected by any TMJ dysfunction Examines a variety of presenting clinical signs or symptoms discusses imaging strategies and the associated conditions revealed by imaging and helps you develop differential diagnoses Provides current detailed information on the relationship between TMJ disorders and SDB how imaging shows the correlation between the two and risk factors for SDB Includes upper respiratory tract diagnoses with multiple subsections on the nasal cavity paranasal sinuses nasopharynx oropharynx and hypopharynx each with multiple new chapters Features new chapters on ultrasonography of the TMJ and upper respiratory tract new content on 3D and 4D modeling and surface rendering a new section on imaging of upper respiratory tract procedures and new content detailing the tie in between occlusion and SDB Includes an expanded Modalities section that includes new chapters on formulating a TMJ upper respiratory tract report plain film imaging of the TMJ and upper respiratory tract CBCT analysis of the upper respiratory tract dynamic MR of the TMJ and upper respiratory tract and ultrasound of the TMJ Covers the role that TMJ plays in facial growth and development stomatognathic system function and how TMJ abnormalities change the dimensions of the facial skeleton and surrounding structures Contains over 5 000 print and online only images more than 300 are new including radiologic images full color medical illustrations and histologic and gross pathology photographs Reflects updates to the Research Diagnostic Criteria for Temporomandibular Disorders RDC TMD the major clinical classification method and a key tool to assess diagnose TMJ issues and facilitate communication for consultants referrals and prognoses **Space**

**Structures** Subramanian Narayanan,2006 Space Structures are economical and aesthetically pleasing in appearance They provide a unique solution for covering large column free areas This book gives a state of the art presentation of the analysis design and construction of space structures The author synthesizes data currently available with his original and exhaustive research to produce the definitive book on space structures Principal features and topics of the book include Analysis design and construction of various types of space structures Nodes and jointing systems Approximate methods of analysis Concepts are explained th **Synergetic Cooperation between Robots and Humans** Ebrahim Samer El Youssef,Mohammad

Osman Tokhi,Manuel F. Silva,Leonardo Mejia Rincon,2024-01-03 CLAWAR 2023 is the 26th International Conference Series on Climbing and Walking Robots and Mobile Machine Support Technologies The conference is organized by CLAWAR Association in collaboration with the Federal University of Santa Catarina Florian polis Brazil during October 2 4 2023 This book provides the latest research and development findings and state of the art insights into the mobile robotics and



associated technologies in a diverse range of application scenarios within the framework of Synergetic Cooperation Between Robots and Humans The topics covered include climbing and inspection robots education in robotics and robotics in education hybrid and convertible UAVs legged robots multibody systems and mechanism design in robotics planning and control robotic navigation robotics and neurotechnologies for healthcare improvements and simulation and digital twins in robotic applications The intended readership includes participants of CLAWAR2023 conference worldwide researchers scientists and educators in the areas of robotics and related topics The book is also a good source for courses in robotics and automation control engineering mechanical engineering and mechatronics      *Advances in Robot Kinematics 2022* Oscar Altuzarra,Andrés Kecskeméthy,2022-06-17 This book reports on the latest scientific achievements on robot kinematics provided by the prominent researchers participating in the 18th International Symposium on Advances in Robot Kinematics ARK2022 organized in the University of the Basque Country Bilbao Spain It is of interest to researchers wanting to know more about the latest topics and methods in the fields of the kinematics control and design of robotic systems The book brings together 53 peer reviewed papers These cover the full range of robotic systems including serial parallel flexible mechanisms and cable driven manipulators and tackle problems such as kinematic analysis of robots robot modelling and simulation theories and methods in kinematics singularity analysis kinematic problems in parallel robots redundant robots cable robots kinematics in biological systems flexible parallel manipulators humanoid robots and humanoid subsystems

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