

# 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

**Hans-Georg Beyer**



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## **Table of Contents Tensegrity Volume 2**

1. Understanding the eBook Tensegrity Volume 2
  - The Rise of Digital Reading Tensegrity Volume 2
  - Advantages of eBooks Over Traditional Books
2. Identifying Tensegrity Volume 2
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Tensegrity Volume 2
  - User-Friendly Interface
4. Exploring eBook Recommendations from Tensegrity Volume 2
  - Personalized Recommendations
  - Tensegrity Volume 2 User Reviews and Ratings
  - Tensegrity Volume 2 and Bestseller Lists
5. Accessing Tensegrity Volume 2 Free and Paid eBooks

- Tensegrity Volume 2 Public Domain eBooks
- Tensegrity Volume 2 eBook Subscription Services
- Tensegrity Volume 2 Budget-Friendly Options
- 6. Navigating Tensegrity Volume 2 eBook Formats
  - ePub, PDF, MOBI, and More
  - Tensegrity Volume 2 Compatibility with Devices
  - Tensegrity Volume 2 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Tensegrity Volume 2
  - Highlighting and Note-Taking Tensegrity Volume 2
  - Interactive Elements Tensegrity Volume 2
- 8. Staying Engaged with Tensegrity Volume 2
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Tensegrity Volume 2
- 9. Balancing eBooks and Physical Books Tensegrity Volume 2
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Tensegrity Volume 2
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Tensegrity Volume 2
  - Setting Reading Goals Tensegrity Volume 2
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Tensegrity Volume 2
  - Fact-Checking eBook Content of Tensegrity Volume 2
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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