

1. Record Nr.	UNINA9910959818203321
Autore	Motro Rene <1946->
Titolo	Tensegrity : structural systems for the future // Rene Motro
Pubbl/distr/stampa	London ; ; Sterling, VA, : Kogan Page Science, 2003
ISBN	1-281-03554-8 9786611035549 1-4175-2669-6 0-08-054234-4
Edizione	[1st ed.]
Descrizione fisica	1 online resource (257 p.)
Disciplina	624.1
Soggetti	Geodesic domes Structural analysis (Engineering)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references (p. [228]-236) and index.
Nota di contenuto	Front Cover; Tensegrity: Structural Systems for the Future; Copyright Page; Contents; Notations; Preface I; Preface II; Acknowledgements; Chapter 1. Introduction; Chapter 2. History and Definitions; 2-1. History; 2-2. Definitions; 2-3. Conclusion; Chapter 3. Fundamental Concepts; 3-1. Introduction; 3-2. Relational structure; 3-3. Geometry and stability; 3-4. Self-stress states and mechanisms; 3-5. Conclusion; Chapter 4. Typologies; 4-1. Introduction; 4-2. Typology criteria and codification; 4-3. Elementary or "spherical" cells; 4-4. Assemblies of cells; 4-5. Conclusion; Chapter 5. Models 5-1. Introduction5-2. Problems to solve; 5-3. Form-finding; 5-4. Self-stress and mechanisms; 5.5 Self-stress qualification; 5-6. Designing tensegrity systems; 5-7. Active control; 5-8. Conclusion; Chapter 6. Foldable Tensegrities; 6-1. Introduction; 6-2. Folding principle; 6-3. Foldable modules; 6-4. Foldable assemblies; 6-5. Folding design; 6-6. Simulation of the folding process; 6-7. Modelling the contact of two struts; 6-8. Conclusion; Chapter 7. Tensegrity: Latest and Future Developments; 7-1. Introduction; 7-2. New tensegrity grids; 7-3. Other projects 7-4. Tensegrity as a structural principle7-5. Conclusion; Appendices; Bibliography; Index

Sommario/riassunto

The word tensegrity results from the contraction of 'tensional' and 'integrity', a word created by Richard Buckminster Fuller. He went on to describe tensegrity structures as 'islands of compression in an ocean of tension', and Rene Motro has developed a comprehensive definition which is 'systems in a stable self equilibrated system comprising a discontinuous set of compressed components inside a continuum of tensioned components'. This publication represents the life work of a leading exponent of a revolutionary and exciting method of structural design.* Represents the life w
