

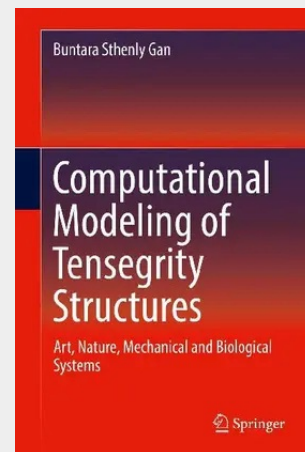
Computational Modeling of Tensegrity Structures

Art, Nature, Mechanical and Biological Systems

This book provides an in-depth, numerical investigation of tensegrity systems from a structural point of view, using the laws of fundamental mechanics for general pin-jointed systems with self-stressed mechanisms. Tensegrity structures have been known for decades, mostly as an art of form for monuments in architectural design.

In Computational Modeling of Tensegrity Structures, Professor Buntara examines these formations, integrating perspectives from mechanics, robotics, and biology, emphasizing investigation of tensegrity structures for both inherent behaviors and their apparent ubiquity in nature. The author offers numerous examples and illustrative applications presented in detail and with relevant MATLAB codes. Combining a chapter on the analyses of tensegrity structures along with sections on computational modeling, design, and the latest applications of tensegrity structures, the book is ideal for R&D engineers and students working in a broad range of disciplines interested in structural design.

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