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Submission date: 03-Jul-2021 01:08PM (UTC+0530)
Submission ID: 1615218387
File name: abstract.docx (11.23K)
Word count: 163
Character count: 940

ABSTRACT

Tensegrity is the characteristic property of a stable 3D structural principle based upon a system of isolated components of both compression and tension, where compression members are discontinuous within the continuous tension members. Tensegrity is relatively a new principle, as a structural system it contributes many advantages over the non-conventional structural systems. The structure can be kept rigid without the help of external members, when the structure is properly operated. This concept has found its applications in soft robotics and in many civil engineering structures such as roofs, bridges, towers, domes and they are briefly discussed in this paper. This paper reviews the precedent works that are helpful for the development of the tensegrity structures. This paper urges to gather all the information from different fields. To achieve this purpose, it is important to understand the structural principles of floating compression or tensegrity. The main advantages, disadvantages and the future scopes of this concept in the architecture field is also briefly discussed.

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