AESTHETIC ASPECTS IN THE DESIGN OF TENSEGRITY METAL STRUCTURES

DR. WALEED E. HASSEN¹; DR. YASSER M. ELSADEK²

¹Associate professor, Metal furniture and constructions Dep., Faculty of Applied Arts, Helwan University, Egypt
²Lecturer: Metal furniture and constructions Dep., Faculty of applied arts, Helwan University, Egypt

Abstract

Although tensegrity, as a global concept and approach, gained a lot of momentum in the last decades of 20 century, in general, it still does not have an equivalent influence on the practice of architecture and design all over the world. This paper considers tensegrity metal Structure as the future of the modern prefabricated construction industry, due to its various advantages such as high tensile strength, ductility, toughness, lightweight and material convenience. The paper aims to determine the aesthetic aspects of tensegrity metal structures, by the aim of investigating its ability to stand against the future challenges. This paper concludes the most important aspects with regard to aesthetic of tensegrity metal Structure.

Keywords: Tensegrity; Synergetics; Tensegrity metal structures.
References