



Introduction

Lightweight tensile structures outstand as an exemplary field that revolutionized architectural technology and engineering in the early 70's, while having established new frame conditions and methodologies regarding cooperation between architectural and engineering disciplines in practice and research [1]. Cable-net and membrane structures' form-finding process is directly related to aesthetic, functional, structural and construction aspects from early stages of the design. The structure's geometry is revised in an iterative process of form-finding until an equilibrium form under the imposed stress requirements of the members and boundary conditions has been reached. The origin of lightweight tensile structures and the initiation

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