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Tensile Fabric Structures: Design Analysis and Construction

By -

American Society of Civil Engineers, United States, 2014. Paperback. Book Condition: New. 213 x 137 mm. Language: English . Brand New Book. Tensile Fabric Structures: Design Analysis and Construction summarises the range of tensile membrane structure forms and their applications and documents the current state of knowledge regarding loading form finding and nonlinear analysis of membrane structures. Structural forms and details are generally left exposed in tensile membrane designs and are strongly tied to architecture and aesthetics. These environmentally friendly and economically competitive structures are found in a wide range of recreational and transportation facilities. This report updates the earlier Tensioned Fabric Structures: A Practical Introduction. Topics include: history of tensioned membrane structuresmechanical lighting and thermal properties of membrane materialsfire safety and durability of membrane materialsshape determination and analysisfabrication and erection process attachment to supporting structuresstructural design and aestheticsThis report will provide practical guidance to structural engineers architects and builders of tensile membrane structures.



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