



On the multiple solution of axisymmetric minimum surfaces

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The optimum condition for the unloaded shape of prestressed tents is met by minimum surfaces. The simplest type of such structure s is a rotationally symmetric catenary surface. In this paper, the authors present an analysis which shows that catenary surfaces cannot fit ar bitrarily chosen boundary circles of the tent, and also that if a solution of the problem exists, also a dual solution can be found. 存档文本

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