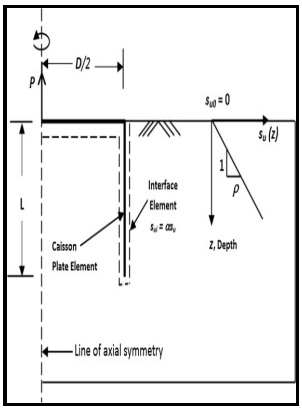
Analysis of the elastic stability of cylindrical caissons.

- - A Simplified Method of Elastic



Description: -
-analysis of the elastic stability of cylindrical caissons.
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Notes: Thesis (M. Sc.)--The Queens University of Belfast, 1934.
This edition was published in 1934

Filesize: 70.88 MB

Tags: #Finite #element #analysis #of #the #elastic #static #properties #and #stability #of #pretensioned #cylindrical #reticulated #mega

A simplified method of elastic

The analysis is in terms of effectivce stress and leads to two equa-tions of equilibrium, the first in respect of forces and the second in respect of moments. On décrit une méthode d'analyse pour déterminer le facteur de sécurité d'un remblai contre la rupture sur une surface de glissement cylindrique. The elastic static property and stability of the structure with the optimal cable-strut arrangement is comprehensively analyzed.

Buckling and collapse of cylinders with one end open and one end simply supported with varying axial restraint

A simplified method of elastic-stability analysis for thin cylindrical shells I : Donnell's equation The equation for the equilibrium of cylindrical shells introduced by Donnell in NACA Technical Report no.

A simplified method of elastic

The governing equation of equilibrium of gradient elastic circular cylindrical thin shells under axial compressive forces is explicitly derived. .

Stability analysis of gradient elastic circular cylindrical thin shells

On donne aussi un groupe de diagrammes de stabilité. Results indicate that the static properties and stability of the structure can be most effectively improved for adoption of the crossover arrangement of the cables and struts according to the buckling shape of the non-pretensioned structure.

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The basic static properties of the pretensioned reticulated mega-structures with different types of cable-strut arrangements are compared and the optimal one is then selected. In part I, the equation for the equilibrium of cylindrical shells introduced by Donnell in NACA report no.

Finite element analysis of the elastic static properties and stability of pretensioned cylindrical reticulated mega

Cylinders with low axial restraint are shown to be imperfection insensitive, with collapse loads above, or close to, the bifurcation load. The resulting partial differential equation in terms of the radial displacement of the shell is of the tenth order instead of the eighth, for the classical elastic case.

The collapse load and imperfection sensitivity of cylinders with the boundary conditions examined here is also found to be a function of the axial restraint.

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