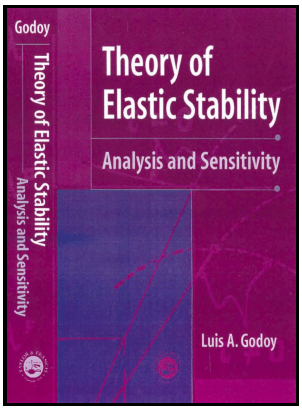
Analysis of the elastic stability of cylindrical caissons.

- - [PDF] A simplified method of elastic



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-analysis of the elastic stability of cylindrical caissons.
-analysis of the elastic stability of cylindrical caissons.
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Buckling and collapse of cylinders with one end open and one end simply supported with varying axial restraint

In order to have a good knowledge of this problem, it is necessary to study the effect of subsoil properties and the possible failure modes during wave attack in the stability analysis of caisson breakwater. The influence of boundary conditions related to edge displacements in the shell median surface is discussed.

A Simplified Method of Elastic

By using the geotechnical software FLAC 3D, the effect of surface soil properties and the failure modes of caisson breakwaters under the excitation of wave loads are discussed. This paper examines the buckling and collapse of cylindrical shells under axial load with one end radially and tangentially fixed, with varying axial fixity, and the other end free. Also, the effect of values and distribution of the cable pretensions on structural stability is studied, and the influence of half-span loading on structural stability is investigated.

A Method of analysis of the Stability of Embankments Assuming Parallel Inter

On donne aussi un groupe de diagrammes de stabilité. A non-dimensional form of the axial spring stiffness is proposed, and shown to be applicable across a range of geometries.

[PDF] A simplified method of elastic

The boundary value problem of buckling of a circular cylindrical shell with simply supported ends is solved analytically and the critical loading is obtained analytically—numerically.

A Method of analysis of the Stability of Embankments Assuming Parallel Inter

EU non-Union MOSS VAT Registration No. Additionally, the ultimate load-carrying capacity of the structure with small ratio of rise to span can be more effectively improved when the pretension of the cables set in the mid-span is larger than that of the cables set on both sides of the structure.

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

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. For the cylindrical reticulated mega-structure, two types of cable-strut arrangements are presented. Cite this paper as: Li F.

A Method of analysis of the Stability of Embankments Assuming Parallel Inter

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.

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