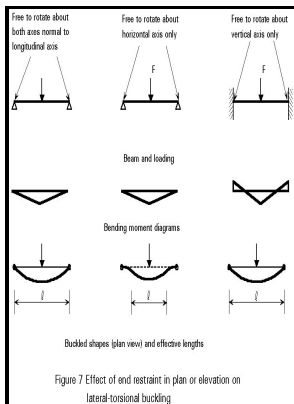


On the determination of the lateral stability of beams

Aeronautical Research Laboratories - Lateral Stability



Description: -

-On the determination of the lateral stability of beams

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Aeronautical Research Laboratories. Structures and materials technical memorandum -- 54 On the determination of the lateral stability of beams

Notes: Bibliography: p. 5.

This edition was published in 1956



Filesize: 34.55 MB

Tags: #Lateral #Stability

Lateral

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Recommendations for verifying lateral stability of precast beams in transitory phases

In other words, by stiffening the joints and increasing their resistance to rotation, we reduce the overall lateral deflection of the frame.

Recommendations for verifying lateral stability of precast beams in transitory phases

Intuitively we would expect B to provide significantly more resistance to the load, P, than A. At roof level, bracing, often known as a wind girder, may be required to carry the horizontal forces at the top of the columns, if there is no diaphragm.

Structural Analysis and Lateral Stability Tutorial

Equation 1 can be used for lifting and transportation. Where the sets of bracing are identical or similar, it is sufficient to assume that the horizontal forces wind loads and equivalent horizontal forces, each magnified for second order effects if necessary, see discussion below are shared equally between the bracing systems in the orthogonal direction under consideration.

Strength and stability of steel beam columns under blast load

The concepts reported here can be extended to beam-columns of other configurations including bi-axial bending. In addition, the outer tube frame is connected to the central core every 12th floor using large stiffening beams, as shown in Fig.

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