

Answers to Three not quite Straightforward Questions in Structural Stability

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ABSTRACT

In this contribution, the following three questions will be answered by means of both, theoretical proofs and practical examples:

- Are linear prebuckling paths and linear stability problems mutually conditional?
- Does the conversion from imperfection sensitivity into imperfection insensitivity by means of a modification of the original structural design require a symmetric postbuckling path?
- Is hilltop buckling, characterized by the coincidence of a bifurcation point and a snap-through point on a load-displacement path, necessarily imperfection sensitive?