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Collapse behavior of non-uniform shallow arch under a concentrated load for fixed and pinned boundary conditions

Sun-ting Yan , Xiaoli Shen , Zhanfeng Chen , Zhijiang Jin

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## Highlights

- Non-uniform shallow arch is studied analytically for various boundary conditions.
- Asymptotical results show an unexpected snap-through criterion.
- Distinct behavior for stiffer end case with fixed boundary conditions is observed.

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