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Modeling and parameteric analysis of arch bridge with transfer matrix method

H.J. Kang , W.D. Xie , T.D. Guo

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Highlights

- A novel modeling and calculation method on arch bridge was carried out.
- The properties of in-plan free vibration of arch bridge was investigated.
- Some discoveries are significant for the design and construction of arch bridge.
- The calculation method also can be generalized to other kinds of arch bridges.

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