## **Accepted Manuscript**

Modeling and parameteric analysis of arch bridge with transfer matrix method

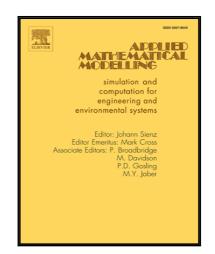
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PII: \$0307-904X(16)30390-0 DOI: 10.1016/j.apm.2016.07.009

Reference: APM 11271

To appear in: Applied Mathematical Modelling

Received date: 2 December 2015 Revised date: 5 June 2016 Accepted date: 21 July 2016



Please cite this article as: H.J. Kang, W.D. Xie, T.D. Guo, Modeling and parameteric analysis of arch bridge with transfer matrix method, *Applied Mathematical Modelling* (2016), doi: 10.1016/j.apm.2016.07.009

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### ACCEPTED MANUSCRIPT

#### 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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