

Accepted Manuscript

Dynamic Behavior of Circular Ring Impinging on Ideal Elastic Wall:
Analytical Model and Experimental Validation

Y. Wang , Y.L. Yang , S. Wang , Z.L. Huang , T.X. Yu

PII: S0734-743X(17)30631-0
DOI: [10.1016/j.ijimpeng.2018.07.009](https://doi.org/10.1016/j.ijimpeng.2018.07.009)
Reference: IE 3133



To appear in: *International Journal of Impact Engineering*

Received date: 26 July 2017
Revised date: 23 June 2018
Accepted date: 11 July 2018

Please cite this article as: Y. Wang , Y.L. Yang , S. Wang , Z.L. Huang , T.X. Yu , Dynamic Behavior of Circular Ring Impinging on Ideal Elastic Wall: Analytical Model and Experimental Validation, *International Journal of Impact Engineering* (2018), doi: [10.1016/j.ijimpeng.2018.07.009](https://doi.org/10.1016/j.ijimpeng.2018.07.009)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights

- Transient dynamic behaviors of a circular ring impinging on an elastic wall are governed by three critical non-dimensional parameters.
- In the whole, the number of collisions increases with the stiffness ratio of the elastic wall to the circular ring.
- Elastic oscillation induced by the collision interaction dramatically reduces the coefficient of restitution.

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/10133770>

Download Persian Version:

<https://daneshyari.com/article/10133770>

[Daneshyari.com](https://daneshyari.com)