

Accepted Manuscript

A study on torsional vibration attenuation in automotive drivetrains using absorbers with smooth and non-smooth nonlinearities

Ahmed Haris , Eliot Motato , Stephanos Theodossiades ,
Homer Rahnejat , Patrick Kelly , Alexander Vakakis ,
Lawrence A Bergman , D.Michael McFarland

PII: S0307-904X(16)30500-5
DOI: [10.1016/j.apm.2016.09.030](https://doi.org/10.1016/j.apm.2016.09.030)
Reference: APM 11361

To appear in: *Applied Mathematical Modelling*

Received date: 12 April 2016
Revised date: 15 August 2016
Accepted date: 24 September 2016

Please cite this article as: Ahmed Haris , Eliot Motato , Stephanos Theodossiades , Homer Rahnejat , Patrick Kelly , Alexander Vakakis , Lawrence A Bergman , D.Michael McFarland , A study on torsional vibration attenuation in automotive drivetrains using absorbers with smooth and non-smooth nonlinearities, *Applied Mathematical Modelling* (2016), doi: [10.1016/j.apm.2016.09.030](https://doi.org/10.1016/j.apm.2016.09.030)

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

- The effect of three NES types in reducing drivetrain torsional vibrations is examined
- NES with cubic stiffness can reduce vibrations for a range of high frequencies
- It was not possible to achieve broadband vibration reduction at a low frequency range

Download English Version:

<https://daneshyari.com/en/article/5471024>

Download Persian Version:

<https://daneshyari.com/article/5471024>

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