

Accepted Manuscript

Probabilistic response of nonsmooth nonlinear systems under Gaussian white noise excitations

Yahui Sun, Ling Hong, Yongge Yang, Jian-Qiao Sun

PII: S0378-4371(18)30627-7
DOI: <https://doi.org/10.1016/j.physa.2018.05.080>
Reference: PHYSA 19620

To appear in: *Physica A*

Received date: 30 January 2018
Revised date: 27 February 2018

Please cite this article as: Y. Sun, L. Hong, Y. Yang, J.-Q. Sun, Probabilistic response of nonsmooth nonlinear systems under Gaussian white noise excitations, *Physica A* (2018), <https://doi.org/10.1016/j.physa.2018.05.080>

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

- Extended the iterative method of weighted residuals.
- Studied the effect of nonsmooth dynamics on stochastic responses.
- Developed a procedure to deal with singularity in the solution of FPK.
- Demonstrated the smooth and nonsmooth probability density in the presence of nonsmooth dynamics.

Download English Version:

<https://daneshyari.com/en/article/7374713>

Download Persian Version:

<https://daneshyari.com/article/7374713>

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