

Accepted Manuscript

Experimental estimation of time variant system reliability of vibrating structures based on subset simulation with Markov chain splitting

S.D. Sonal , S Ammanagi , O Kanjilal , C.S. Manohar

PII: S0951-8320(17)30637-3
DOI: [10.1016/j.ress.2018.05.007](https://doi.org/10.1016/j.ress.2018.05.007)
Reference: RESS 6155



To appear in: *Reliability Engineering and System Safety*

Received date: 27 May 2017
Revised date: 2 April 2018
Accepted date: 11 May 2018

Please cite this article as: S.D. Sonal , S Ammanagi , O Kanjilal , C.S. Manohar , Experimental estimation of time variant system reliability of vibrating structures based on subset simulation with Markov chain splitting, *Reliability Engineering and System Safety* (2018), doi: [10.1016/j.ress.2018.05.007](https://doi.org/10.1016/j.ress.2018.05.007)

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

- New test method to estimate time variant reliability of vibrating systems.
- Sampling variance reduction via subset simulation and MCMC sampling.
- Illustrative studies on a nonlinear building frame under bi-axial earthquake load.

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/7195085>

Download Persian Version:

<https://daneshyari.com/article/7195085>

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