

Accepted Manuscript

Topology optimization under uncertainty via non-intrusive polynomial chaos expansion

Vahid Keshavarzzadeh, Felipe Fernandez, Daniel A. Tortorelli

PII: S0045-7825(16)31301-9

DOI: <http://dx.doi.org/10.1016/j.cma.2017.01.019>

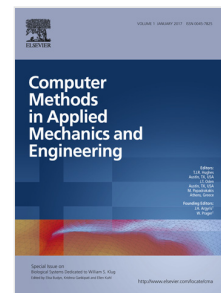
Reference: CMA 11304

To appear in: *Comput. Methods Appl. Mech. Engrg.*

Received date: 5 October 2016

Revised date: 12 January 2017

Accepted date: 13 January 2017



Please cite this article as: V. Keshavarzzadeh, F. Fernandez, D. Tortorelli, Topology optimization under uncertainty via non-intrusive polynomial chaos expansion, *Comput. Methods Appl. Mech. Engrg.* (2017), <http://dx.doi.org/10.1016/j.cma.2017.01.019>

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.

**Topology Optimization under Uncertainty via Non-Intrusive
Polynomial Chaos Expansion**

by

Vahid Keshavarzzadeh¹, Felipe Fernandez¹ and Daniel A. Tortorelli^{1,2}

¹Department of Mechanical Science and Engineering
University of Illinois at Urbana-Champaign
Urbana, Illinois, 61801, USA

²Center for Design and Optimization
Lawrence Livermore National Laboratory
Livermore, California, 94550, USA

vkeshava@illinois.edu, lfferna2@illinois.edu, dtortore@illinois.edu

Download English Version:

<https://daneshyari.com/en/article/4963954>

Download Persian Version:

<https://daneshyari.com/article/4963954>

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