Accepted Manuscript

A new direct second-order reliability analysis method

Xianzhen Huang, Yuxiong Li, Yimin Zhang, Xufang Zhang

 PII:
 S0307-904X(17)30643-1

 DOI:
 10.1016/j.apm.2017.10.026

 Reference:
 APM 12027

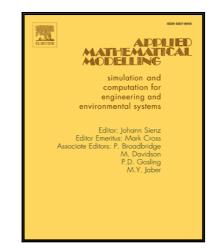
To appear in:

Applied Mathematical Modelling

Received date:17 January 2017Revised date:5 October 2017Accepted date:19 October 2017

Please cite this article as: Xianzhen Huang, Yuxiong Li, Yimin Zhang, Xufang Zhang, A new direct second-order reliability analysis method, *Applied Mathematical Modelling* (2017), doi: 10.1016/j.apm.2017.10.026

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.



ACCEPTED MANUSCRIPT

Highlights

- A new study of the second-order reliability method (SORM) is presented.
- All the information from the fitted quadratic polynomial model of the limit state function is used.
- The cumulant generating function of the fitted quadratic polynomial surface in normalized standard variables is derived analytically.
- The saddlepoint approximation is utilized for reliability analysis.
- The proposed method is more accurate than the conventional SORM.

Chillip Martin

دريافت فورى 🛶 متن كامل مقاله

- امکان دانلود نسخه تمام متن مقالات انگلیسی
 امکان دانلود نسخه ترجمه شده مقالات
 پذیرش سفارش ترجمه تخصصی
 امکان جستجو در آرشیو جامعی از صدها موضوع و هزاران مقاله
 امکان دانلود رایگان ۲ صفحه اول هر مقاله
 امکان پرداخت اینترنتی با کلیه کارت های عضو شتاب
 دانلود فوری مقاله پس از پرداخت آنلاین
 پشتیبانی کامل خرید با بهره مندی از سیستم هوشمند رهگیری سفارشات
- ISIArticles مرجع مقالات تخصصی ایران