

## *Reliability Assessment Using Stochastic Finite Element Analysis*

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Mahadevan and Haldar has developed reliability analysis method which is presented in their book: Reliability Assessment Using Stochastic Finite Element Analysis (2000). They use Stochastic Finite Element Method, as an input to explicit performance function required by FORM (First Order Reliability Method) and SORM (Second Order Reliability Method).

### **A Critical Study on the Haldar and Mahadevan's Reliability ...**

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### **Achintya Haldar - Google Scholar Citations**

The issue of reliability of stochastically updated finite element models is discussed. • An improved perturbation is used for stochastic finite element model updating. • The quality of initial model and the updated models are evaluated from reliability indicators. •

### **Assessment of stochastically updated finite element models ...**

In the 1990s FEA was proposed for use in stochastic modelling for numerically solving probability models and later for reliability assessment. The stochastic finite element method has since been applied to many branches of engineering, often being applied to characterise variability in material properties. See also

### **Finite element method - Wikipedia**

Finite Element Methods and Reliability A State-of-the-Art Report by Bruno Sudret and Armen Der Kiureghian A report on research supported by Electricité de France under Award Number D56395-T6L29-RNE861 Report No. UCB/SEMM-2000/08 Structural Engineering, Mechanics and Materials Department of Civil & Environmental Engineering ...

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