

## *Probabilistic Analysis Of Uncertainties In The Manufacturing*

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### Probabilistic Analysis Of Uncertainties In

Probabilistic risk assessment (PRA), sometimes called probabilistic safety analysis, quantifies the risk of undesired events in industrial facilities. However, one of the weaknesses that undermines the credibility and usefulness of this technique is the uncertainty in PRA results. Fault tree analysis (FTA) and event tree analysis (ETA) are the most important PRA techniques for evaluating ...

### Treatment of Uncertainties in Probabilistic Risk ...

PROBABILISTIC ANALYSIS OF UNCERTAINTIES IN THE MANUFACTURING PROCESS OF METAL FORMING AUTHORS: H. Müllerschön<sup>1</sup>, D. Lorenz<sup>1</sup>, W. Roux<sup>2</sup>, M. Liebscher<sup>3</sup>, S. Pannier<sup>3</sup>, K. Roll<sup>4</sup> . 1DYNAmore GmbH . 2Livermore Software Technology Corporation (LSTC) 3Institut für Statik und Dynamik der Tragwerke, TU Dresden .

### PROBABILISTIC ANALYSIS OF UNCERTAINTIES IN THE ...

Probabilistic seismic hazard analysis (PSHA) is, in essence, a method to deal with uncertainty, the importance of which justifies the use of a formal and rigorous background for its study. Therefore, the purpose of this paper is to contribute to the reflections on how to correctly handle uncertainty in PSHA. We start by studying the simplest case, a Poisson process in which only "aleatory ...

### On Uncertainties in Probabilistic Seismic Hazard Analysis ...

Research to determine whether these methods are equally applicable to the analysis of geologic uncertainties is needed. If they are deemed unsuitable, new probabilistic methods for the analysis of geologic uncertainties should be developed, and the role of geological uncertainty in a probabilistic analysis must be further elucidated. (3)

### Probabilistic methods for unified treatment of ...

Stability analysis of rock tunnels is a complex problem because of various types of uncertainties present in the rock mass properties and hence probabilistic approaches are used to systematically consider these uncertainties in the analysis.

### Probabilistic analysis of tunnels considering uncertainty ...

@article{osti\_204111, title = {Use of probabilistic methods for analysis of cost and duration uncertainties in a decision analysis framework}, author = {Boak, D.M. and Painton, L.}, abstractNote = {Probabilistic forecasting techniques have been used in many risk assessment and performance assessment applications on radioactive waste disposal projects such as Yucca Mountain and the Waste ...

### Use of probabilistic methods for analysis of cost and ...

PDF | On Aug 27, 2007, H. Müllerschön and others published PROBABILISTIC ANALYSIS OF UNCERTAINTIES IN THE MANUFACTURING PROCESS OF METAL FORMING

### PROBABILISTIC ANALYSIS OF UNCERTAINTIES IN THE ...

manufacturing uncertainties on performance using probabilistic techniques. Effects of manufacturing tolerances on axial turbine cooling have been presented in (Bunker, 2009). A probabilistic methodology using principal-component analysis (PCA) based blade geometry model

### PROBABILISTIC ANALYSIS OF MANUFACTURING UNCERTAINTIES FOR ...

Jump to navigation Jump to search. Probability bounds analysis (PBA) is a collection of methods of uncertainty propagation for making qualitative and quantitative calculations in the face of uncertainties of various kinds. It is used to project partial information about random variables and other quantities through mathematical expressions.

### Probability bounds analysis - Wikipedia

In this sense, the text presents some fundamental concepts in UQ, a brief review of probability basics notions, discusses, through a simplistic example, the fundamental aspects of probabilistic modeling of uncertainties in a physical system, and explains what is the uncertainty propagation

problem.

### **Probabilistic Analysis Research Papers - Academia.edu**

probabilistic composite mechanics with probabilistic structural analysis. The uncertainties of constituent materials (fiber and matrix) to predict macroscopic behavior are simulated using probabilistic theory. Uncertainties in the degradation of composite material properties are included in this design methodology. A multi-factor

### **Probabilistic Sizing of Laminates With Uncertainties - NASA**

Methods for uncertainty analysis. Uncertainty analysis can be done in two general ways: quantitatively, by trying to estimate in numerical terms the magnitude of uncertainties in the final results (and if appropriate at key stages in the analysis); and, qualitatively, by describing and/or categorising the main uncertainties inherent in the analysis.

### **Methods for uncertainty analysis | Integrated ...**

by a probabilistic evaluation to determine the effect of the primitive variables on the radiator panel structural performance. Based on uncertainties in material properties, structural geometry and loading, the results of the displacement and stress analysis are used as an input file for the probabilistic analysis of the panel.

### **Probabilistic Structural Evaluation of Uncertainties in ...**

Uncertainty Treatment for Level-2 Probabilistic Safety Analysis A. Hoefer\* AREVA NP GmbH, P.O. Box 100551, 63005 Offenbach, Germany and G. Dirksen, J. Eyink, and E.-M ...

### **Uncertainty Treatment for Level-2 Probabilistic Safety ...**

is sensitive to uncertainties in the component pieces that together form the hazard model. As a result, the important sources of uncertainty must be explicitly included and evaluated as part of a comprehensive probabilistic seismic hazard analysis (PSHA). The paper examines some of the specific issues that arise when trying to satisfy that ...

### **Uncertainties in Probabilistic Seismic Hazard Analyses for ...**

A less biased approach to risk assessment uses uncertainty analysis to estimate the degree of confidence that can be placed in the risk estimate. A discussion of uncertainty is critical to the full characterization of risk to more fully evaluate the implications and limitations of the risk assessment (EPA, 1992).

### **An Introductory Guide to Uncertainty Analysis in ...**

A fundamental aspect of the Senior Seismic Hazard Analysis Committee 's (SSHAC) methodology is the distinct and separate treatment of aleatory and epistemic uncertainty. Throughout its report, SSHAC emphasizes the need to distinguish between these two types of uncertainty, the quantifications of ...

### **Review of Recommendations for Probabilistic Seismic Hazard ...**

Probabilistic model. Abstract. Many soil slopes are unsaturated and their failure can be a major cause of damage to structures. Apart from soil properties, the Soil-Water Characteristic Curve (SWCC) is the backbone of any unsaturated slope analysis. Uncertainties of these effective

### **Probabilistic model of unsaturated slope stability ...**

STOCHASTIC ANALYSIS OF UNCERTAINTIES FOR METAL FORMING PROCESSES WITH LS-OPT Heiner Müllerschön 1\*, Willem Roux 2, David Lorenz 3, Karl Roll 4 1,3 DYNAmore GmbH, {hm,dl}@dynamore.de 2 Livermore Software Technology Corporation, willem@lstc.com 3 Daimler AG, karl.roll@daimler.de

### **STOCHASTIC ANALYSIS OF UNCERTAINTIES FOR METAL FORMING ...**

In this regard, the present work focuses on the uncertainties within a Probabilistic Flood Risk

Analysis Model (PRAMo), introduced by Schneeberger . The objective of the study is to evaluate and compare the uncertainties in different components of the complex model chain.

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