

PROBABILISTIC STRUCTURAL  
MODELING IN LINEAR DYNAMIC ANALYSIS  
OF COMPLEX MECHANICAL SYSTEMS  
II. NUMERICAL ANALYSIS AND APPLICATIONS

by

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ABSTRACT

This paper concerns the numerical developments of a probabilistic modeling of structural fuzzy in complex mechanical systems, the theoretical foundations of which are laid down in the first part of the paper.

We present further numerical analysis needed to implant the method in a finite element solver, along with certain elements identifying the behavioral law of structural fuzzy we have built.

We present a numerical simulation of the method on standard structures (beam-plate-shell). We show that the first-order approximation of the random solution is sufficient for dispersion parameters of the fuzzy up to at least 50%, which illustrates the advantage of the method from a practical point of view.

*Keywords (NASA thesaurus): Structural vibration - Random vibration.*

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