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dynamic analysis of damped structures is the book by Sun and Lu [SUN 95]. The book by Beards [BEA 96] takes a pedagogical approach towards structural vibration of damped systems. The handbook by Jones [JON 01] focuses on viscoelastic damping and analysis of structures with such damping models.

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(book review) The Structural Engineer
Date published. 1 October 2014. Author.
Tianjian Ji (University of Manchester)
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Within the framework of structural dynamics, the article deals with the problem of determining at a given moment the probability density function of certain quantities of interest, based on the uncertainties about the initial data,

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the structure characteristics and the applied loads. The proposed method uses the so-called principle of preservation of probability, and leads to writing a linear partial differential equation for any quantity whose probability density function has to be determined.

The Generalized Density Evolution

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dynamic displacements, time history, and modal analysis. Structural analysis is mainly concerned with finding out the behavior of a physical structure when subjected to force. This action can be ...

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For brain connectivity analysis,
(Generalized Structured Dynamic GSCA
Component Analysis) (Jung et al., 2012)
has extended the original GSCA (Hwang
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incorporating a multivariate
autoregressive model to deal with
longitudinal/time) series data(e.g.,
functional MRI data). Dynamic GSCA is

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Jimin He, Zhi-Fang Fu, in Modal Analysis,
2001. 1.4.2 Correlation of finite element
model and experimental results. Many
applications of structural dynamics rely
their success entirely upon having an

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accurate mathematical model for a dynamic structure. Such a model can be derived from the finite element modelling.

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damping in his classic work "The Theory
of Sound" in 1877, it has bec...

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non-linear equations of structural dynamics according to a single-step as well as to a linear multistep formulation.

Moreover, three alternatives for the temporal integration of non-linear internal forces are presented: the generalized trapezoidal rule, the mid-point rule and the generalized energy-

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