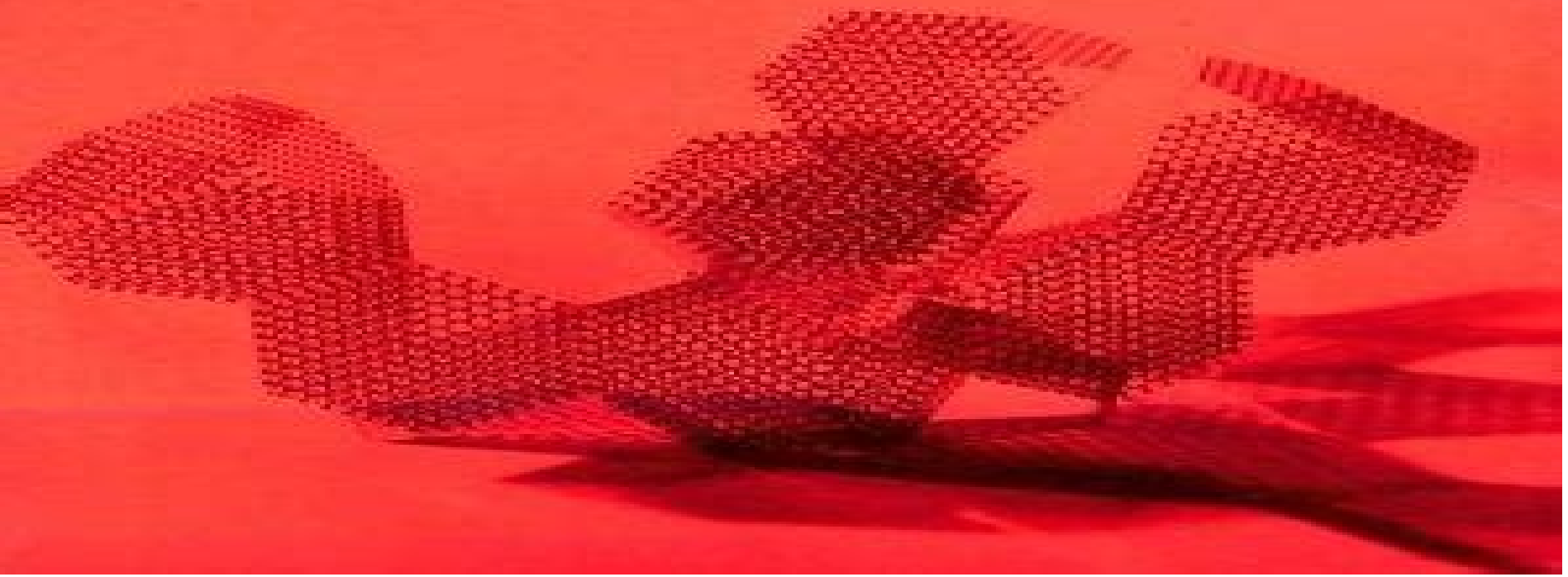


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# Computational methods in structural dynamics

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Dynamical  
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# Computational Methods In Structural Dynamics

**South-East European Conference on  
Computational Mechanics, ECCOMAS.**



## **Computational Methods In Structural Dynamics:**

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models are continuously gaining in significance. In particular, the problems of dynamic response analysis and reliability assessment of structures with uncertain system and excitation parameters have been the subject of continuous research over the last two decades as a result of the increasing availability of powerful computing resources and technology. This book is a follow up of a previous book with the same subject ISBN 978 90 481 9986 0 and focuses on advanced computational methods and software tools which can highly assist in tackling complex problems in stochastic dynamic seismic analysis and design of structures. The selected chapters are authored by some of the most active scholars in their respective areas and represent some of the most recent developments in this field. The book consists of 21 chapters which can be grouped into several thematic topics including dynamic analysis of stochastic systems, reliability based design, structural control and health monitoring, model updating, system identification, wave propagation in random media, seismic fragility analysis and damage assessment. This edited book is primarily intended for researchers and post graduate students who are familiar with the fundamentals and wish to study or to advance the state of the art on a particular topic in the field of computational stochastic structural dynamics. Nevertheless, practicing engineers could benefit as well from it as most code provisions tend to incorporate probabilistic concepts in the analysis and design of structures.

**COMPUTATIONAL METHODS FOR STRUCTURAL MECHANICS AND DYNAMICS.** J. W. Stroud, J. M. Housner, J. A. Tanner, United States. National Aeronautics and Space Administration, 1985

**Computational Methods in Structural Dynamics and Earthquake Engineering** ECCOMAS., 2011

*Structural Dynamics* Roy R. Craig, 1981-08-19

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*Compdyn 2007* Manolis Papadrakakis, 2000

*Computational Structural Dynamics and Earthquake Engineering* Manolis Papadrakakis, Dimos C. Charmpis, Yannis Tsompanakis, Nikos D. Lagaros, 2008-12-04

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**COMPDYN 2009** National Technical University of Athens. Institute of Structural Analysis and Seismic Research,2009 **Computational Methods for Nonlinear Dynamical Systems** Xuechuan Wang,Xiaokui Yue,Honghua Dai,Haoyang Feng,Satya N. Atluri,2022-09-28 Computational Methods for Nonlinear Dynamical Systems Theory and Applications in Aerospace Engineering proposes novel ideas and develops highly efficient and accurate methods for solving nonlinear dynamic systems drawing inspiration from the weighted residual method and the asymptotic method Proposed methods can be used both for real time simulation and the analysis of nonlinear dynamics in aerospace engineering The book introduces global estimation methods and local computational methods for nonlinear dynamic systems Starting from the classic asymptotic finite difference and weighted residual methods typical methods for solving nonlinear dynamic systems are considered In addition new high performance methods are proposed such as time domain collocation and local variational iteration The book summarizes and develops computational methods for strongly nonlinear dynamic systems and considers the practical application of the methods within aerospace engineering Presents global methods for solving periodic nonlinear dynamical behaviors Gives local methods for solving transient nonlinear responses Outlines computational methods for linear nonlinear ordinary and partial differential equations Emphasizes the development of accurate and efficient numerical methods that can be used in real world missions Reveals practical applications of methods through orbital mechanics and structural dynamics *Computational Methods in Structural Dynamics and Earthquake Engineering* ,2007

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respective areas and represent some of the most recent developments in this field The book consists of 21 chapters which can be grouped into several thematic topics including dynamic analysis of stochastic systems reliability based design structural control and health monitoring model updating system identification wave propagation in random media seismic fragility analysis and damage assessment This edited book is primarily intended for researchers and post graduate students who are familiar with the fundamentals and wish to study or to advance the state of the art on a particular topic in the field of computational stochastic structural dynamics Nevertheless practicing engineers could benefit as well from it as most code provisions tend to incorporate probabilistic concepts in the analysis and design of structures

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