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architectural intuition performs well and plies with the design requirements architects usually describe as optimal design their choice among a rather limited set of design alternatives dictated by their experience and intuition'

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April 29th, 2020 - author s editor s biography dr vagelis plevris is an associate professor at the department of civil engineering and energy technology of the oslo and akershus university college of applied sciences in oslo norway he holds a 5 year bachelor s degree in civil engineering from the national technical university of athens ntua with specialization in structural engineering'

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**area vital for aerospace civil and mechanical engineering vibration data is used for the updating process'**

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May 22nd, 2020 - over the last few decades tremendous development has been made in the field of putting technology in terms of both computer hardware and software development following this enormous progress numerical computation has become nowadays one of the most vigorous tools for scientists researchers and professional engineers around the world although this has led to tremendous achievements in'

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May 21st, 2020 - uncertainties play a dominant role in the design and optimization of structures and infrastructures in optimum design of structural systems due to variations of the material manufacturing variations variations of the external loads and modelling uncertainty the parameters of a structure a structural system and its environment are not given first **structural dynamic systems computational techniques and**

May 18th, 2020 - among the principal causes of failure in structural dynamic systems are exceedance of maximum structural systems design limit and structural



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fatigue failure these processes are analyzed in this volume and require sophisticated methods such as stochastic processes and their interactions with a structure as applied forces with stochastic description finite element techniques and other processes"**mathematical optimization**

June 3rd, 2020 - mathematical optimization alternatively spelt optimisation or mathematical programming is the selection of a best element with regard to some criterion from some set of available alternatives optimization problems of sorts arise in all quantitative disciplines from puter science and engineering to operations research and economics and the development of solution methods has been of'

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**April 19th, 2020 - abstract the prediction of the transient dynamic response of monolithic structural systems as well as of heterogeneous numerical physical subsystems deposed by putational or physical considerations typical of hardware in the loop and pseudo dynamic tests using numerical integration has bee an accepted practice almost to the extent that such solutions in non linear problems'**

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**May 26th, 2020 - nonlinear structural dynamic systems which are multi degree of freedom systems involve for instance matrix dynamic equilibrium equations which can be of various order up to very high order in these equations the nonlinear quantities can be dependent on time and other terms such as scalar variables which are dependent on time"efficient design optimization strategy for structural**

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**April 15th, 2020 - efficient design optimization strategy for structural dynamic systems using a reduced basis method bined with an equivalent static load article in structural and multidisciplinary optimization"journal of putational and nonlinear dynamics asme**

**June 6th, 2020 - in the putational and multi body system dynamics area topics include novel formulations and algorithms for putation in kinematics and dynamics of rigid and flexible systems application of finite element and finite difference methods in dynamics numerical approaches in synthesis optimization and control parallel putations and software development etc topics in the nonlinear'**

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**'improved dynamical particle swarm optimization method for**

*June 5th, 2020 - a methodology to the multiobjective structural design of buildings based on an improved particle swarm optimization algorithm is presented which has proved to be very efficient and robust in nonlinear problems and when the optimization objectives are in conflict in particular the behaviour of the particle swarm optimization pso classical algorithm is improved by dynamically adding'* **design optimization of active and passive structural**

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