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Design Optimization of Active and Passive Structural Control Systems



Nikos D. Lagaros, Vagelis Plevris & Chara Ch. Mitropoulou

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Design Optimization of Active and Passive Structural Control Systems Lagaros, Nikos D., Plevris, Vagelis, Mitropoulou, Chara Ch, 2012-08-31 A typical engineering task during the development of any system is among others to improve its performance in terms of cost and response Improvements can be achieved either by simply using design rules based on the experience or in an automated way by using optimization methods that lead to optimum designs Design Optimization of Active and Passive Structural Control Systems includes Earthquake Engineering and Tuned Mass Damper research topics into a volume taking advantage of the connecting link between them which is optimization This is a publication addressing the design optimization of active and passive control systems This title is perfect for engineers professionals professors and students alike providing cutting edge research and applications

Design of Optimal Feedback for Structural Control

Ido Halperin, Grigory Agranovich, Yuri Ribakov, 2021-06-30 Structural control is an approach aimed at the suppressing unwanted dynamic phenomena in civil structures It proposes the use of methods and tools from control theory for the analysis and manipulation of a structure's dynamic behavior with emphasis on suppression of seismic and wind responses This book addresses problems in optimal structural control Its goal is to provide solutions and techniques for these problems by using optimal control theory Thus it deals with the solution of optimal control design problems related to passive and semi active controlled structures The formulated problems consider constraints and excitations which are common in structural control Optimal control theory is used in order to solve these problems in a rigorous manner Even though there are many works in this field none comprise optimization techniques with firm theoretical background that address the solution of passive and semi active structural control design problems The book begins with a discussion on models which are commonly used for civil structures and control actuators Modern theoretical notions such as dissipativity and passivity of dynamic systems are discussed in context of the addressed problems Optimal control theory and suitable successive methods are reviewed Novel solutions for optimal passive and semi active control design problems are derived based on firm theoretical foundations These results are verified by numerical simulations of typical civil structures which are subjected to different types of dynamic excitations

Integrated Structural and Control System Design Optimization for Structures Under Dynamic Loading Mehdi Navid, 1986

Passive and Active Structural Vibration Control in Civil Engineering

T.T. Soong, M.C. Constantinou, 2014-05-04 Base isolation passive energy dissipation and active control represent three innovative technologies for protection of structures under environmental loads Increasingly they are being applied to the design of new structures or to the retrofit of existing structures against wind earthquakes and other external loads This book with contributions from leading researchers from Japan Europe and the United States presents a balanced view of current research and world wide development in this exciting and fast expanding field Basic principles as well as practical design and implementational issues associated with the application of base isolation systems and passive and active control devices to

civil engineering structures are carefully addressed Examples of structural applications are presented and extensively discussed

Control Design Variable Linking for Optimization of Structural/Control Systems National Aeronautics and Space Administration (NASA),2018-07-17 A method is presented to integrate the design space of structural control system optimization problems in the case of linear state feedback control Conventional structural sizing variables and elements of the feedback gain matrix are both treated as strictly independent design variables in optimization by extending design variable linking concepts to the control gains Several approximation concepts including new control design variable linking schemes are used to formulate the integrated structural control optimization problem as a sequence of explicit nonlinear mathematical programming problems Examples which involve a variety of behavior constraints including constraints on dynamic stability damped frequencies control effort peak transient displacement acceleration and control force limits are effectively solved by using the method presented Jin Ik Min and Schmit Lucien A Unspecified Center CONTROL SYSTEMS DESIGN DYNAMIC STABILITY DYNAMIC STRUCTURAL ANALYSIS FEEDBACK CONTROL INDEPENDENT VARIABLES LARGE SPACE STRUCTURES OPTIMIZATION STRUCTURAL STABILITY ANTENNAS CONTROL THEORY DESIGN ANALYSIS DISPLACEMENT NONLINEAR PROGRAMMING Advances in Structural

Optimization José Herskovits,1995 This text presents the techniques for a wide set of applications ranging from the problems of size and shape optimization historically the first to be studied to topology and material optimization Structural models are considered that use both discrete and finite elements Structural materials can be classical or new Emerging methods are also addressed such as automatic differentiation intelligent structures optimization integration of structural optimization in concurrent engineering environments and multidisciplinary optimization

Proceedings of the Third World Conference on Structural Control Fabio Casciati,2003-03-14 Organized by the International Association for Structural Control IASC and sponsored by the European Association for the Control of Structures EACS the recent world conference on structural control 3WCSC brought together engineers scientists architects builders and other practitioners interested in the general fields of active hybrid and passive vibration control health monitoring and damage detection intelligent smart materials and systems Applications included buildings bridges space structures and civil infrastructures under the action of dynamic environments earthquake wind traffic and man made loads It provided a valuable forum for the discussion of the most pressing concerns in structural control and its related topics The conference covered a wide range of topics including active and semi active control devices passive control devices control algorithms for linear and non linear systems modeling and identification of structural systems sensors health monitoring and damage detection benchmark test of building and bridges innovative materials for structural control applications to aerospace structures applications to bridges applications to critical structures external dynamic force characteristics and controllability issues implications of severe ground motions wind forces codes for structural control and so forth Such comprehensive treatment of the most innovative developments

in structural control will make these volumes an informative reference for all researchers and engineers interested in this area. Proceedings of the US Europe Workshop On Sensors and Smart Structures Technology Como and Somma Lombardo Italy. In the last few years significant progress has been made in the area of sensing technology and structural health monitoring condition assessment in the US and Europe. Innovative concepts involving new hardware algorithms and software have been proposed. There have also been several full scale trial implementations of densely sensor instrumented infrastructures and health monitoring systems as well as case studies on bridges in Europe and in the US. Much can be learnt through US European collaboration in the area of experimental verification on small medium large and full scale projects. Moreover a common framework for expanded future joint research can be developed on the increased understanding achieved through mutual learning. This workshop consisted of seminar sessions on several themes which included innovative sensing hardware advances in wireless technology and damage detection characterization and condition assessment methodologies. In addition there were several workshop sessions devoted to summarizing the status of the sensors and smart structures technologies in these topics identifying the compelling research issues and formulating an action plan with recommendations for development and implementation through possible collaborative research projects and sharing of scientific data. **Robust Design**

Optimization of Structures Under Uncertainties Zhan Kang, 2005 *Structural Dynamic Systems Computational Techniques and Optimization* Cornelius T. Leondes, 1999-05-11 There are various techniques to optimize either structural parameters or structural controllers but there are not many techniques that can simultaneously optimize the structural parameters and controller. The advantage of integrating the structural and controller optimization problems is that structure and controller interaction is taken into account in the design process and a more efficient overall design lower control force lighter weight can be achieved and also multidisciplinary design optimization can be performed. The down side is that the combined optimization problem is more difficult to formulate and solve and computations are increased. This volume is a comprehensive treatment of dynamic analysis and control techniques in structural dynamic systems and the wide variety of issues and techniques that fall within this broad area including the interactions between structural control systems and structural system parameters. *Control, Optimization, and Smart Structures* Hojjat Adeli, Amgad Saleh, 1999-05-03 A futuristic guide to smart structure technology. Through the use of active controllers a structure can modify its behavior during dynamic loading such as impact wind or earthquake loading. Such structures with self modification capability are called adaptive or smart structures. Smart structure technology prevents loss of life and damage to structures during natural disasters. This cross disciplinary book features computational models and algorithms for active control of a new generation of large adaptive structures subjected to various types of dynamic loading. An important focus of the book is the optimization of both the structure and control systems in order to minimize costs. Active Control of Structures Andre Preumont, Kazuto Seto, 2008-11-20 With *Active Control of Structures* two global pioneers present the state of the art in the theory design and

application of active vibration control As the demand for high performance structural systems increases so will the demand for information and innovation in structural vibration control this book provides an effective treatise of the subject that will meet this requirement The authors introduce active vibration control through the use of smart materials and structures semi active control devices and a variety of feedback options they then discuss topics including methods and devices in civil structures modal analysis active control of high rise buildings and bridge towers active tendon control of cable structures and active and semi active isolation in mechanical structures Active Control of Structures Discusses new types of vibration control methods and devices including the newly developed reduced order physical modelling method for structural control Introduces triple high rise buildings connected by active control bridges as devised by Professor Seto Offers a design strategy from modelling to controller design for flexible structures Makes prolific use of practical examples and figures to describe the topics and technology in an intelligible manner Control Design Variable Linking for Optimization of

Structural/control Systems Ik Min Jin,1993 **Technology of Semiactive Devices and Applications in Vibration**

Mitigation Fabio Casciati, Georges Magonette, Francesco Marazzi, 2006-06-14 Researchers have studied many methods of using active and passive control devices for absorbing vibratory energy Active devices while providing significant reductions in structural motion typically require large and often multiply redundant power sources and thereby raise concerns about stability Passive devices are fixed and cannot be modified based on information of excitation or structural response Semiactive devices on the other hand can provide significant vibration reductions comparable to those of active devices but with substantially reduced power requirements and in a stable manner Technology of Semiactive Devices and Applications in Vibration Mitigation presents the most up to date research into semiactive control systems and illustrates case studies showing their implementation and effectiveness in mitigating vibration The material is presented in a way that people not familiar with control or structural dynamics can easily understand Connecting structural dynamics with control this book Provides a history of semiactive control and a bibliographic review of the most common semiactive control strategies Presents state of the art semiactive control systems and illustrates several case studies showing their implementation and effectiveness to mitigate vibration Illustrates applications related to noise attenuation wind vibration damping and earthquake effects mitigation amongst others Offers a detailed comparison between collocated and non collocated systems Formulates the design concepts and control algorithms in simple and readable language Includes an appendix that contains critical considerations about semiactive devices and methods of evaluation of the original damping of a structure Technology of Semiactive Devices and Applications in Vibration Mitigation is a must have resource for researchers practitioners and design engineers working in civil automotive and mechanical engineering In addition it is undoubtedly the key reference for all postgraduate students studying in the field **Active Structural Control** T. T. Soong,1990 Optimal Redesign of

Active and Passive Control in Structural Systems Ye Xu,1997 **Active, Hybrid, and Semi-active Structural Control** S.

Y. Chu, T. T. Soong, A. M. Reinhorn, 2005-08-05 Need to develop document and synthesize This comprehensive handbook is designed to provide you with the knowledge needed to successfully implement an active hybrid or semi active control system to a structure for safeguarding it against environmental forces such as wind or earthquakes Vibration Mitigation Systems in Structural Engineering Okay Altay, 2021-08-15 The scope of the book is the application of vibration mitigation systems in structural engineering The intended content includes the theoretical background covering aspects from both structural dynamics and control engineering point of view Moreover passive active and semi active devices are explained in detail giving mathematical principles design considerations and application examples It also contains detailed information about structural monitoring as an essential part of the active semi active systems and therefore provide a full overview about passive active and semi active systems in the specific context of civil engineering Book presents a comprehensive coverage of the area of vibration control of civil structures subjected to different types of loading while using passive semi active and or active controls Presents the theoretical governing equations as well as the associated design guides of various vibration control mitigation approaches Discusses structural monitoring aspects such as sensor technology system identification and signal processing topics Reviews structural control aspects such as algorithms Includes solved examples utilizing MATLAB SIMULINK with source codes of the calculation examples and design tool set This book is aimed at graduate students professionals researchers in civil engineering structural engineering structural dynamics health monitoring vibration control

Advanced Structural Dynamics and Active Control of Structures Wodek Gawronski, 2007-06-14 Science is for those who learn poetry for those who know Joseph Roux This book is a continuation of my previous book Dynamics and Control of Structures 44 The expanded book includes three additional chapters and an additional appendix Chapter 3 Special Models Chapter 8 Modal Actuators and Sensors and Chapter 9 System Identification Other chapters have been significantly revised and supplemented with new topics including discrete time models of structures limited time and frequency grammians and reduction also balanced modal models simultaneous placement of sensors and actuators and structural damage detection The appendices have also been updated and expanded Appendix A consists of thirteen new Matlab programs Appendix B is a new addition and includes eleven Matlab programs that solve examples from each chapter In Appendix C model data are given Several books on structural dynamics and control have been published Meirovitch's textbook 108 covers methods of structural dynamics virtual work d'Alembert's principle Hamilton's principle Lagrange's and Hamilton's equations and modal analysis of structures and control pole placement methods LQG design and modal control Ewins's book 33 presents methods of modal testing of structures Natke's book 111 on structural identification also contains excellent material on structural dynamics Fuller Elliot and Nelson 40 cover problems of structural active control and structural acoustic control

Integrated Structural/control Design Via Multiobjective Optimization Garret L. Schneider (CAPT, USAF.), 1990

Semi-active Structural Control Systems with Nonlinear Actuator Dynamics Jeffrey Lee Kuehn, 2000

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