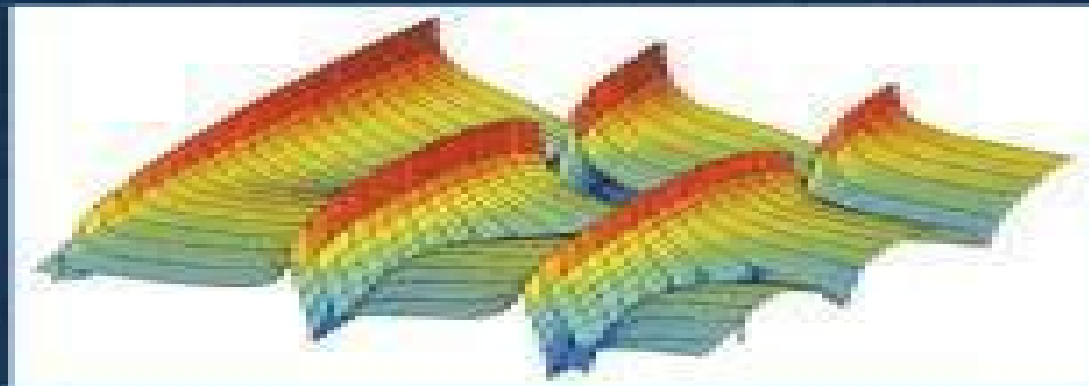




Spatial Control of Vibration

Theory and Experiments

**S. O. Reza Moheimani, Dunant Halim &
Andrew J. Fleming**



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Spatial Control Of Vibration Theory And Experiments

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Spatial Control Of Vibration Theory And Experiments:

Spatial Control of Vibration S. O. Reza Moheimani, Dunant Halim, Andrew J. Fleming, 2003 Vibration is a natural phenomenon that occurs in a variety of engineering systems In many circumstances vibration greatly affects the nature of engineering design as it often dictates limiting factors in the performance of the system The conventional treatment is to redesign the system or to use passive damping The former could be a costly exercise while the latter is only effective at higher frequencies Active control techniques have emerged as viable technologies to fill this low frequency gap This book is concerned with the study of feedback controllers for vibration control of flexible structures with a view to minimizing vibration over the entire body of the structure The book introduces a variety of flexible structures such as beams strings and plates with specific boundary conditions and explains in detail how a spatially distributed model of such systems can be obtained It addresses the problems of model reduction and model correction for spatially distributed systems of high orders and goes on to extend robust control techniques such as H infinity and H2 control design methodologies to spatially distributed systems arising in active vibration control problems It also addresses other important topics such as actuator and sensor placement for flexible systems and system identification for flexible structures with irregular boundary conditions The text contains numerous examples and experimental results obtained from laboratory level apparatus with details of how similar test beds may be built

Multiparameter Stability Theory with Mechanical Applications Alexander P. Seyranian, Alexei A. Mailybaev, 2003 This book deals with fundamental problems concepts and methods of multiparameter stability theory with applications in mechanics It presents recent achievements and knowledge of bifurcation theory sensitivity analysis of stability characteristics general aspects of nonconservative stability problems analysis of singularities of boundaries for the stability domains stability analysis of multiparameter linear periodic systems and optimization of structures under stability constraints Systems with finite degrees of freedom and with continuous models are both considered The book combines mathematical foundation with interesting classical and modern mechanical problems A number of mechanical problems illustrating how bifurcations and singularities change the behavior of systems and lead to new physical phenomena are discussed Among these problems the authors consider systems of rotating bodies tubes conveying fluid elastic columns under the action of periodic and follower forces optimization problems for conservative systems etc The methods presented are constructive and easy to implement in computer programs This book is addressed to graduate students academics researchers and practitioners in aerospace naval civil and mechanical engineering No special background is needed just a basic knowledge of mathematics and mechanics

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