
Order Reduction Parametrically Excited Nonlinear Systems

order reduction of parametrically excited linear and ... - order reduction of parametrically excited linear and nonlinear structural systems order reduction of parametrically excited linear and nonlinear structural systems represented by a set of second order equations is considered. first, the system is converted into a second order system with time invariant linear system matrices and (for nonlinear **order reduction of parametrically excited nonlinear ...** - a novel approach for order reduction of parametrically excited nonlinear structural systems represented by a set of second order equations using invariant manifolds is also presented in this work. it is the generalization of the approach presented by burton and coworkers [7, 8] for autonomous systems. **simplification and order reduction of parametrically ...** - simplification and order reduction of parametrically excited nonlinear dynamical systems by amit p. gabale a dissertation submitted to the graduate faculty of auburn university in partial fulfillment of the requirements for the degree of doctor of philosophy auburn, alabama december 13, 2010 **vibration control of a transversely excited cantilever ...** - suppress the vibration of a transversely excited cantilever beam with tip mass or similar systems actively. ... control of parametrically excited cantilever beams. yang and chen [9] studied the bifurcation and chaos of ... sinha et al. [15] used the order reduction techniques for parametrically excited nonlinear systems. this technique has been ... **i parametric excitation - weizmann institute of science** - parametric excitation 6 advanced s-theory: supplementary sections 121 6.1 ground state evolution of system ... 6.4.4 two-dimensional reduction of basic equations . 151 6.4.5 distribution of parametric waves in k ... energy is substantially higher than the energy of parametrically excited waves. if pumping is one of the oscillatory modes ... **bifurcation control of parametrically excited duffing ...** - bifurcation control of parametrically excited duffing system by a combined linear-plus-nonlinear feedback control ... the frequency response and for the reduction of the jump in the nonstationary force response. key words: parametric excitation, nonlinear systems, bifurcation, bifurcation control, stabilization, nonlinear ... in order to ... **dynamic response of a nonlinear parametrically excited ...** - an irreducible approach to second-order reducible second-class constraints c bizdadea, e m cioroianu, s o saliu et al. ... dynamic response of a nonlinear parametrically excited system subject to ... **parametrically excited water surface ripples as ensembles ...** - parametrically excited water surface ripples as ensembles of oscillons m. shats,* h. xia, and h. punzmann ... mobility and drive transitions from chaos to order. the shape of the oscillons in physical space determines ... the reduction of the oscillon mobility (possibly due to the change in their short-range interaction), is **June 1 - 5, 2008 - esm.vt** - order reduction and feedback linearization of parametrically excited nonlinear systems a. gabale and s. c. sinha, auburn university, auburn, al 2. ... couplings in parametrically excited inclined cables systems g. michon, universit  de toulouse, isae, toulouse, france a. **a numerical feasibility study of a parametric roll advance ...** - a numerical feasibility study of a parametric roll advance warning system leigh shaw mccue ... on the order of \$100 mil, have proven that parametric roll exists ... can be an effective means for the reduction of the parametrically excited rolling motion [7,8]. on the other hand, again, experiments, have shown that change of course ... **recent studies of parametrically excited mooring cables ...** - recent studies of parametrically excited mooring cables for ... parametrically excite the system and might result in excessive vibrations in the cable. ... drf dynamic reduction factor \dot{U} cable ... **a dynamic branch-switching method for parametrically ...** - a dynamic branch-switching method for parametrically excited systems a.y.t. leung and t. ge school of engineering, university of manchester, manchester m13 9pl, uk received 21 january 1999 revised 13 august 1999 the branch-switching algorithm in static is applied to steady state dynamic problems. the governing ordinary differential **temporal intermittency of chaos in parametrically excited ...** - temporal intermittency of chaos in parametrically excited capillary ripples. i a. b. ezerskii udc 537.86/87:530.182 the results of an experimental study of disordered capillary ripples parametrically excited on a liquid surface in various types of resonators are presented. **numerical and experimental investigation on the parametric ...** - numerical and experimental investigation on the parametric rolling of a trimaran ship in longitudinal regular waves ... this paper presents a combined numerical experimental investigation on the parametrically excited rolling motion in regular longitudinal waves for a trimaran hull for wave lengths shorter ... a risk index is introduced in ...

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