
Elastic Multibody Dynamics A Direct Ritz Approach

dynamics of an elastic multibody chain: part b—global dynamics - dynamics and stability of systems vol. 4 nos. 3 & 4 1989 dynamics of an elastic multibody chain: part b-global dynamics p. c. hughes university of toronto institute for aerospace studies, downsvlew, ontario, **elastic multibody dynamics - springer** - elastic multibody dynamics. international series on intelligent systems, control, and automation: science and engineering volume 35 editor professor s. g. tzafestas, national technical university of athens, greece editorial advisory board professor p. antsaklis, university of notre dame, in, u.s.a. **elastic multibody dynamics - gbv** - 7. elastic multibody systems - ordinary differential equations 327 7.1 summary procedure 327 7.1.1 rigid multibody systems 327 7.1.2 elastic multibody systems 329 7.2 mixed rigid-elastic multibody systems 335 7.3 applications 338 7.3.1 prismatic joint - the telescoping arm 338 7.3.1.1 on mass distribution: tip body influence 339 **dynamics of an elastic multibody chain: part d—modelling ...** - dynamics and stability of systems vol. 8 no. 2 1993 dynamics of an elastic multibody chain: part d-modelling of joints g. 6. sincarsin dynacon enterprises ltd, suite 222, 5050 duferin street, downsvlew, ontario, canada m3h 5t5 g. m. t. d'eleuterio and p. c. hughes **multi-body dynamics benchmarks for frictionless elastic ...** - ecomas thematic conference on multibody dynamics june 29 - july 2, 2015, barcelona, catalonia, spain multi-body dynamics benchmarks for frictionless elastic collisions reinier w. bos , jeroen wikkerink# faculty of mechanical, maritime and materials engineering delft university of technology mekelweg 2, 2628cd delft, the netherlands **error-controlled model reduction in elastic multibody dynamics** - error-controlled model reduction in elastic multibody dynamics peter eberhard, jörg fehr, christine nowakowski institute of engineering and computational mechanics, university of stuttgart, pfaffenwaldring 9, 70569 stuttgart, germany e-mail: [peter.eberhard,joerg.fehr,christinewakowski]@itm.uni-stuttgart **model reduction of an elastic crankshaft for elastic ...** - equations of motion of each body in the elastic multibody system. since the discretization of the elastic bodies, e.g with the help of the finite element method, introduces a large number of elastic degrees of freedom, an efficient simulation of the system becomes difficult. the linear model reduction of the elastic degrees of freedom is a ... **comparison between elastic foundation and contact force ...** - keywords: wear, contact, elastic foundation, finite element, multibody dynamics, joint clearance 1 introduction mechanical/multibody systems consist of a number of components that are interconnected by joints. these joints typically consist of at least two components that are in contact and experience relative motions. **homogeneous rigid body mechanics with elastic coupling** - modeling elastically coupled rigid bodies is an important problem in multibody dynamics. this work concerns the problem of modeling what can be called flexural joints, where two essentially rigid bodies are coupled by a substantially more elastic body. such an idealized system is shown in fig. 1. the **a computational procedure for multibody systems including ...** - number of elastic coordinates, coordinate transformations from the physical elastic coordinates to modal coordinates were performed within the multibody dynamics context 12 and static correction modes were used in conjunction with the normal modes of vibration to account for reaction forces and torques transmitted to the components through joint **a nonlinear viscoelastic bushing element in multibody dynamics** - a nonlinear viscoelastic bushing element in multibody dynamics r. ledesma, z.-d. ma, g. hulbert, a. wineman abstract this paper presents a formulation for incorporating nonlinear viscoelastic bushing elements into multibody systems. the formulation is based on the assumption that the

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