

Elastic Plates in Multibody Systems: A Treatment Using Existing Rigid Body Codes

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Abstract. In the present paper, it is shown how one can employ existing rigid body codes to handle systems containing elastic plates by using a Rayleigh–Ritz discretization procedure. The equations of motion are formulated for a rectangular plate undergoing large rigid body motions, but small elastic deformations. Geometric nonlinearities in the elastic coordinates are taken into account to include the effect of dynamic stiffening. As an example, a spin-up maneuver for a simply-supported plate is treated.

Key words: elastic plates, elastic multibody systems, symbolic dynamics.

1. Introduction

The dynamic analysis of flexible multibody systems is a subject of current interest with applications in robotics and in the aerospace industry. Several authors have pointed out that one has to consider geometric nonlinearities in the elastic components to capture the effect of dynamic stiffening caused by the large rigid body motion of the structure [5, 10]. In [7, 9, 12], different theories for beams in large overall motion were presented; later, Banerjee and Kane [1] extended their analysis to plates.

In the present paper, a plate model similar to the one in [1] is chosen because the main objective is to show how one can employ an existing rigid body code to simulate motions of systems containing plates. As an example of an available code, originally developed for systems of rigid bodies only, the symbolic dynamics manipulator AUTODIV [8] is used. In [2] and [3], it was demonstrated that AUTODIV can be used to produce the equations of motion for multibody systems containing elastic beams. Now, it is shown that the theory is not limited to beam elements and that one can treat plates as well.

2. Analysis

We consider an arbitrary system containing rigid and elastic bodies. Discretizing the elastic parts via a Rayleigh–Ritz procedure may lead to a system possessing p degrees of freedom. The motion of the system in an inertial reference frame N , therefore, can be described by the generalized speeds u_1, \dots, u_p , which are

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