



Nonlinear Dynamics of Continuous Elastic Systems

Jan Awrejcewicz, Vadim Anatolevich Krys'ko, Alexander F. Vakakis

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There are many monographs in the existing literature devoted to the static and dynamic behavior of plates and shells. Plates and shells are enco-tered often in engineering applications being integralparts of a wide range of constructions, such as machines, vehicles, airplanes, rockets, ships, bridges, buildings, and containers, to name a few. In addition to the usual requi- ments posedby engineers related to lightweightness, su?cientrigidityor?- ibility, and robust stability properties, there is an additional class of apriori dynamical properties required by modern engineering applications wheren-homogeneity and non-uniformity of structural components is often the norm incertain applications. In addition, strictoperational requirements in modern engineering applications towards higher speeds, lighter construction, robust andreliableperformance, dictatessmallermarginsoferrorordeviations from prescribed performances in adverse or uncertain forcing environments. This, in turn, requires the development of new analytical and computational tools capable of addressing challenging and not very well developed topics, such as, nonlinearities a?ecting the system performance, the e?ects of unmodeled dynamics on the stability of operation, and the role of uncertainties in the systemparametersonthestructural response. As a result, thereisanongoing e?ort to address such issues, leading to the development of new analytical and computational tools, some of which are discussed in this monograph. The monograph follows an approach based on an integrated treatment of analysis and computation. Such a hybrid approach, coupled with computer algebra, can lead to results that cannot be obtained by other standard th- ries in the eld. We show, that in a wide class of problems only a carefully prepared numerical experiment followed by purely mathematical conside- tionscan?nallyleadtothesoughtresults. Thenumerousanalyticalconstr- tions are illustrated by examples of application and computational results.

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