



The Analysis of Higher Order Nonlinear Vibrations of an Elastic Beam with the Extended Galerkin Method

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Abstract

The analysis of vibrations of an elastic beam is one of the persistently challenging problems in engineering and mathematics. The differential equation of vibrations of a beam under large deformation, or the typical vibrations of an elastica, is hard to approximate and solve with the formulation in Cartesian coordinates. As a novel approach, the extended Galerkin method is used to obtain the first- to third-order nonlinear vibration frequencies of a cantilever beam with the exact equation of an elastic beam with larger deflection, and the governing equation is transformed for improved analysis and solutions with the mode shape function from the linear solution. The numerical results show that the approximate fundamental solution is accurate in comparison to the exact solution for small amplitudes. The effectiveness of the extended Galerkin method in solving nonlinear vibration equations is further demonstrated with a novel procedure.

Keywords Nonlinear · Beam · Elastica · Galerkin · Vibration · Frequency

Introduction

The deformation of an elastic beam under static and dynamic loads is important as a typical problem of engineering applications and a challenge in mathematical methods. Mainly, if a large deformation occurs and the simplified beam equation, popularly known as the Euler–Bernoulli beam theory, is not enough to provide accurate solutions to satisfy the mathematical and application needs, additional efforts have to be devoted to accurate solutions with efficiency. This, of course, has been demonstrated in the development of beam theories as there is tremendous literature on the simplifications in addition to the accurate solutions of elastic beams with exact solutions in elliptical function. Many prominent scientists have constantly attempted the problem with the time spanned hundreds of years. Notably, it should be noted that the correct beam equation is the contribution of Love [1], and Bishopp and Drucker have made subsequent

approximations for the popular expression and solutions available from textbooks and applications [2–4]. By making it an elastica problem [5, 6], many leading mathematicians such as Bernoulli, Euler, and Newton, among many others, studied and contributed to the available solutions and methods for centuries up to today [7–13]. The improved analysis with large deformation has to be obtained with the accurate beam equation, which is further simplified with the adoption of the Eulerian coordinates of a beam, as shown in many studies [14, 15]. These solutions have also been acquired with many methods developed in the centuries of studies of differential equations of similar nature. Mainly, it is necessary to point out that the elliptical function solutions by Painlevé [16] have been helpful in providing the exact solutions as the reference in the subsequent studies [17, 18]. Lately, the homotopy analysis method (HAM) by Liao has been utilized for studies to demonstrate explicit solutions through an iterative process with convergent results for some large parameters [19–22]. Other methods, including the finite-element method, have also been used for new solution procedures and results to demonstrate the effectiveness of methods in solving such typical nonlinear differential equations [23, 24]. The problem of a cantilever beam has been used as the benchmark to test new methods and solution techniques [3, 25–28].

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