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Transversal vibration analysis of an axially moving string with unilateral constraints using the HHT method

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ABSTRACT

In this paper, the transversal vibration characteristics of an axially moving string with unilateral constraints were examined using the Hilbert–Huang transform (HHT), due to its wide range of applications. Experiments were conducted on five test cases, and the subsequent analyses were discussed. The experimental results show that the introduction of a guide has the effect of causing low-frequency vibration suppression. The vibration behaviors of the guided segment and the free portion are highly sensitive to the initial tension, the initial clearance between the string and the guide, the transport speed and the guiding length. The details of the string vibrations revealed in this work will be used as a reference for engineering designs and relative system identifications.

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1. Introduction

Axially moving strings have been extensively studied as models for diverse mechanical systems. A comprehensive literature review on this subject was recently performed by Chen [1]. Based on linear assumptions and using a modal analysis and Green's function for a uniform, flexible and axially moving string that travels between two fixed eyelets, Wickert and Mote [2] obtained exact closed form solutions to the response of an arbitrary excitation and initial conditions. Using the Laplace transform method, Horssen [3] constructed the exact solution for transverse oscillations in traveling strings from arbitrary lateral vibrations of the support(s). Perkins [4] discussed the linear dynamics of a translating string on an elastic foundation, and illustrated the dependence of the natural frequencies of the string and mode shapes on the foundation stiffness, the foundation geometry, and the string translation speed. The forced response of the string to a harmonic end excitation was also determined in closed form for a complete uniform foundation. Wickert [5] extended the work above and presented solutions to the response for the vibration of an axially moving string supported by an elastic foundation through modal analysis and Green's function. Parker [6] analytically examined the stability of an axially moving string supported by a discrete or distributed elastic foundation and indicated that the elastically supported string has unique stability behaviors that are considerably different from those of an unsupported axially moving string. Ghayesh [7] studied the stability conditions with parametric studies on the resonance of an axially accelerating string supported by a partially elastic foundation, and presented the effects of system parameters on the natural frequencies and stability boundaries of the system through numerical simulations.

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