



Letter to the Editor

Stochastic stability of torsion oscillations in moving thin elastic bands

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1. Introduction

Elastic band oscillations belong to the class of problems that can be generally considered as oscillatory problems of axially moving elastic bodies. This class of problems includes: oscillations of moving filaments in textile industry machines, oscillations of band saws, oscillatory movement of magnetic bands in audio devices, etc. Such systems are modelled by axially moving strings, beams, or plates. A great number of researchers have studied the problems of the moving thin elastic band. Nelson [1] analyzed deterministic transverse oscillations of a thin moving band and derived relations for determining natural frequencies of this system. Alspaugh [2] explored torsion oscillations of a thin rectangular moving band which moves at constant speed in the longitudinal direction. Soler [3] studied the stability of connected transverse and torsional oscillations of a thin moving band. Ariaratnam and Asokanathan [4] explored torsion oscillations of a moving band stretched at the ends by a harmonically variable force. They determined the analytical conditions of stability, and presented them graphically. Wang [5] analyzed a non-linear model of axially moving bands with end curvatures. Both analytical and numerical results show the impact of velocity, tensile force and bending radius at the band's ends upon the system's dynamic behaviour. Sund and Fung [6] propose a new dynamic model describing the behaviour between the fluid film and elastic deformation in a thin foil bearing. The string and beam models describing the magnetic tape are compared. Tylikowski [7] determined the conditions for uniform stochastic stability of a moving band by using Lyapunov's direct method, while Kozin and Milsted [8] determined the conditions for almost-sure asymptotic stability of a moving band by using the method developed by the authors. Kozić and Pavlović [9] determined the conditions of stochastic stability of a thin moving elastic strip when it is subjected to the parameters of random excitation that are wide-band stochastic processes of small intensity. By combining the Khas'minskii method of stochastic averaging and the procedure for determining the largest Lyapunov exponent, expressions for the largest Lyapunov exponent with respect to the system parameters have been determined.

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