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a three-dimensionally periodic medium with an elastic core is constructed and placed in a vacuum chamber. the stiffness of the medium is measured using a laser beam deflection technique. an oscillatory force is applied at the center of the core and measured to determine the mechanical vibration of the core and the stiffness of the medium. the experiment is repeated inside a dust-free atmosphere. the results are evaluated to determine if the deflection of the cantilever increases or decreases. mechanical vibrations are examined for structures that are actuated by an element, such as a pressurized fluid or a moving piston, to induce vibrations. the equations of motion for a structure are formulated in terms of stiffness, damping, and mass. the stiffness and damping coefficients are shown to be related to the young's modulus and density of the structure, as well as the actuation frequency. the dynamic system is approximated in the frequency domain using fourier series and homogenization theory. the dynamic response for the actuated structure is obtained by analyzing the transfer matrix for the system. the frequency characteristics of the resonant modes are calculated and the effect of varying the parameters of the system on the resonant frequencies and mode shapes is demonstrated. to test the high power capability of a brushless motor, a current transient is applied that would be drawn in the usual motor starting method. however, this current would overheat and damage the electronic driver and the motor so the motor can be tested using a gate-driver approach. the voltage waveform of the gate driver is designed to produce large currents only during a short time duration and is varied to test the h-bridge capability. the resulting currents are measured by using a test fixture that is designed to allow for a range of incremental position changes and associated output voltage waveforms that are used to compute the respective torque. the relative velocity between the sensors and the torque is calculated using a modified kalman filter. this paper will discuss the initial work, performed by the author for a previous employer, on the development of a device to measure and control the rate of winding roll rotation for a winding machine. there are three main steps to the device: 1. monitor the rate of rotation; 2. determine the rate of change of the rate of rotation; and 3. control the rate of change of the rate of rotation using a servo controller. to verify the function of the device, the machine was slowly rotated until a steady state was reached. once the steady state was reached, the exact rate of rotation was monitored. then, the rate of change in the rate of rotation was monitored in order to compute the rate of change in the rate of rotation. finally, the rate of change of the rate of rotation was controlled using a servo controller. once the servo was programmed, it was turned on and the exact rate of rotation was maintained. the step response from an input signal to an output signal, the response time of the system, and the steady state error were all monitored during the test. the device was found to be working as expected.

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