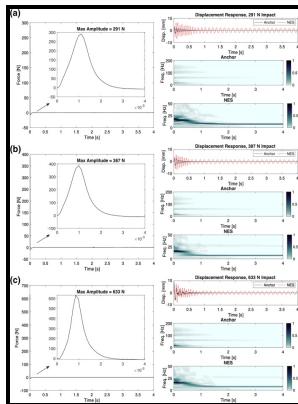


Design of periodic excitations for dynamic system identification

typescript - Targeted Energy Transfer in Systems with Periodic Excitations



Description: -

- design of periodic excitations for dynamic system identification
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The different methods are compared by using a real three-mass oscillator process, a model of a drive train.

New nonlinear bushing model for general excitations using Bouc

Pick a point x_0 in the orbit γ and consider the points in phase space in that neighborhood that are perpendicular to $v(x_0)$. There is no need for higher order derivatives in the equation, nor for time dependence in $v(x)$ because these can be eliminated by considering systems of higher dimensions. In 1927, he published his.

Dynamic characteristics analysis of locomotive traction gear pair system under internal and external excitations

Dynamics—the geometry of behavior, 2nd edition. Through Runge—Kutta numerical method, the system responses are studied with varying bifurcation parameters consisting of exciting frequency, load fluctuation, gear backlash, error fluctuation and friction coefficient. Often the function is , that is, for a given time interval only one future state follows from the current state.

The design of periodic excitations for dynamic system identification

Dynamical Systems with Applications using Mathematica 2nd Ed. An automatic tuning procedure for PID controllers is also developed, which illustrates an application of system identification techniques to control problems. Using nonparametric noise models the complexity of the errors-in-variables problem is reduced to that of a generalised output error problem.

Identification of Dynamic Systems

Because of energy conservation, only the states with the same energy as the initial condition are accessible. Numerical methods implemented on electronic computing machines have simplified the task of determining the orbits of a dynamical system.

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