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shaping is an open-loop control technique for reducing residual vibrations in computer-controlled machines that is implemented by convolving a sequence of impulses (an input shaper) with any desired command [1].

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Input shaping is an open-loop control technique for reducing residual vibrations in computer-controlled machines that is implemented by convolving a sequence of impulses (an input shaper) with any desired command. In this paper, an impulse vector is.

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A MATHEMATICAL TOOL TO DESIGN AND ANALYZE INPUT SHAPERS

The advanced mechanical design is optimized utilizing FEA tools. The dynamic behaviour of the actual built scanning unit is characterized and agrees

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well with the FEA predicted dynamics. An input-shaping based control method is presented that compensates the main dynamics of the high-speed scanner.

Convolve, Inc. and Input Shaping® - Design Tool

The requirement of precise position

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control implies that the residual vibration of the structure should be zero or near zero.

This paper presents techniques to shape the input to the system so as to minimize the residual vibration. A second class of problems which includes design of input profiles for systems with rigid-body modes driven

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Design of Input Shaping Control for Planar Parallel ...

Closed-Loop Input Shaping for Flexible Structures Using Time-Delay Control J. Dyn. Sys., Meas., Control (September, 2000) Sliding Mode Output Feedback Control of Vibration in a Flexible

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Design of Closed-Loop Input Shaping Controllers

Input shaping is a control technique that has been used to control vibration of flexible machines, such as robots, satellites, and cranes. By combining input

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shaping with model-following control, helicopter payload swing is reduced and tracking of the prescribed model is improved.

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Input shaping is implemented by a

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sequence of impulses, called the input shaper, together with a desired system command, and forms a new system input that yields the desired motion without vibration. However, one major drawback of this method is that the exact cancellation of the residual vibration depends on the amplitudes and instants of

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impulse application, which are related to system parameters.

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Narayanan, Madusudanan Sathia, and Krovi, Venkat. "Design of Input Shaping Control for Planar Parallel Manipulators."

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Proceedings of the ASME 2013 Dynamic Systems and Control Conference.

Input Shaping Control

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SHAPERS CHUL-GOO KANG Input shaping is an open-loop control technique for reducing residual vibrations in computer-controlled machines that is implemented by convolving a sequence of impulses (an

Robust input shaping control for multi-

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Therefore, the objective of this study is to design a new type of SMA wire actuator for input shaping control of flexible structures by simply connecting two SMA wires with different phase transformation temperatures in series, aimed at producing stair-wise input shaping command that is

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similar to the input shaping command achieved by the conventional electric motor actuators.

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Input-Shaping and Model-Following Control of a Helicopter ...

Input shaping is a feed-forward control technique for improving the settling time and the positioning accuracy, while minimizing residual vibrations, of

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computer-controlled machines. Input shaping is a strategy for the generation of time-optimal shaped commands using only a simple model, which consists of the estimates of natural frequencies and damping ratios .

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Input-Shaping Control A

MATHEMATICAL TOOL TO DESIGN
AND ANALYZE INPUT SHAPERS

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convolving a sequence of impulses (an input shaper) with any desired command [1]. The timing

Concurrent Design of Input Shaping and Proportional Plus ...

Input Shaping/Time Delay Pre-filter are techniques for robust vibration control of

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slewing flexible structures. These are open-loop schemes and cannot handle uncertain initial conditions and effects of disturbances. In this paper, we develop a technique for the design of closed loop input shapers and illustrate it on a simple benchmark problem.

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Impulse Vectors for Input-Shaping Control: A Mathematical ...

Closed-loop feedback control and command shaping are often used together to achieve superior control performance. In many cases, the feedback control is designed and implemented first. Then, the command shaping is designed to improve

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the resulting closed-loop dynamics.

However, there is an often-overlooked advantage of optimally combining these two control schemes.

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Eliminate Resonances Excited by Motion

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to Increase Throughput The accuracy and throughput of machines employing motion control systems can be limited by motion-induced vibration. This is common in test and inspection applications where the measurement device or objective is cantilevered. ACS' SPiiPlus motion controllers' Input Shaping feature

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provides a solution to this problem by creating ...

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In this paper, three input shaping control schemes of an overhead crane are investigated. Three input shaping

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controllers, which are zero vibration (ZV), zero vibration derivative (ZVD) and zero ...

4. Application to input shaping control - Institute of Physics

Input shaping is an open-loop control technique for reducing residual vibrations

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in computer-controlled machines that is implemented by convolving a sequence of impulses (an input shaper) with any desired command [1]. The timing instants and amplitudes of the impulses are determined from the natural frequency and damping ratio of a vibratory system by solving a set of constraint equations [2].

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