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piezoelectric effect, the piezoelectric beam generates charges when it is subjected to acceleration. Due to the large input impedance of the MOSFET, the charge generated by the piezoelectric beam can be used as a gate control signal to achieve the purpose of converting the output charge of the piezoelectric beam into current. Sensors | Free Full-Text | Characteristics Research of a ... In most conventional semi-active vibration control with piezoelectric transducers, the switch timing is determined by using the target input derived based on the LQR method as an index. For example, Makihara et al. [13 , 30] defined the cost function in LQR based semi-active control as (29) $J \equiv \int_0^{\infty} (z \rightarrow T W 1 z \rightarrow + Q \rightarrow T W 2 Q \rightarrow) d t$. Predictive

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Control - GBV The smart piezoelectric materials are
used to detect and control the panel vibrations of a
vehicle body. The piezoelectric materials with positive
and inverse piezoelectric effects can be used as both
sensors and actuators. The piezoelectric sensor detects
the panel vibrations and feeds them to a control unit to

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sting damper designed for solving the vibration problem in wind tunnel tests is detailed, especially its system identification process, which is generally a difficult challenge in practice. System identification and experiment evaluation of a ... Taking the piezoelectric flexible beam as the research object, this paper proposed a FXLMS algorithm based MIMO adaptive vibration control method to attenuate the oscillations of flexible structures at low frequency.

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