

## **Active vibration suppression scheme of magnet girders**

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Comparing with passive vibration suppression scheme, active vibration suppression have more frequency range and software flexibility. It has potential to apply in the existed old structure or new built structure. A voice coil motor (VCM) is chosen as an actuator in the active dynamic vibration system. With a VCM, a suitable PID controller is designed for vibration reduction in specified frequency range. This paper presents the simulations and experiments of the active dynamic vibration absorber in the magnet girder.