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Hubertus von Bremen* (hfvonbremen@csupomona.edu), Cal Poly Pomona, 3801 West Temple Avenue, Department of Mathematics and Statistics, Pomona, CA 91768. *Some stability results in the time delayed control of structural systems using single and multiple actuators.*

In the active control of large-scale structures, it is inevitable to have time delays in the control. The actuator and sensor dynamics do not allow for the instantaneous generation of the large high frequency forces usually needed in the control. This introduces a delay in the control system. Here we present some stability results of time delayed control of systems with single actuators and we extend some of these results for systems with multiple actuators. (Received August 31, 2013)