



Lyapunov-Based Control of Mechanical Systems (Control Engineering)

Marcio S. de Queiroz, Darren M. Dawson, Siddharth P. Nagarkatti, Fumin Zhang

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The design of nonlinear controllers for mechanical systems has been an extremely active area of research in the last two decades. From a theoretical point of view, this attention can be attributed to their interesting dynamic behavior, which makes them suitable benchmarks for nonlinear control theoreticians. On the other hand, recent technological advances have produced many real-world engineering applications that require the automatic control of mechanical systems. Often, Lyapunov-based techniques are utilized as developing different nonlinear control structures for mechanical systems. The allure of the Lyapunov-based framework for mechanical system control design can most likely be assigned to the fact that Lyapunov function candidates can often be crafted from physical insight into the mechanics of the system. That is, despite the nonlinearities, couplings, and/or the flexible effects associated with the system, Lyapunov-based techniques can often be used to analyze the stability of the closed-loop system by using an energy-like function as the Lyapunov function candidate. In practice, the design procedure often tends to be an iterative process that results in the death of many trees. That is, the controller and energy-like function are often constructed in concert to foster an advantageous stability property and/or robustness property. Fortunately, over the last 15 years, many systems theory and control researchers have labored in this area to produce various design tools that can be applied in a variety of situations.

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