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Roger J. Thelwell* (thelwerj@jmu.edu). *A power series approach to stability and control*. Preliminary report.

Recasting highly nonlinear dynamical systems as quadratic (a technique rediscovered and exploited by Parker and Sochacki) allows series to provide numeric and theoretic insight and intuition. This talk will explore stability and control via series methods. (Received September 22, 2015)