## The Nyquist Stability Criterion



Nyquist Stability Criterion. Under the assumptions of the Nyquist theorem, the closed-loop system (at a given gain K) is stable *if and only if* the Nyquist plot of G(s) encircles the point -1/K P times *counterclockwise*, where P is the number of unstable (RHP) open-loop poles of G(s).