Review: Nyquist Plot

Consider an arbitrary *strictly proper* transfer function H:

$$H(s) = \frac{(s - z_1) \dots (s - z_m)}{(s - p_1) \dots (s - p_n)}, \qquad m < n$$

Nyquist plot: $\operatorname{Im} H(j\omega)$ vs. $\operatorname{Re} H(j\omega)$ as ω varies from $-\infty$ to ∞