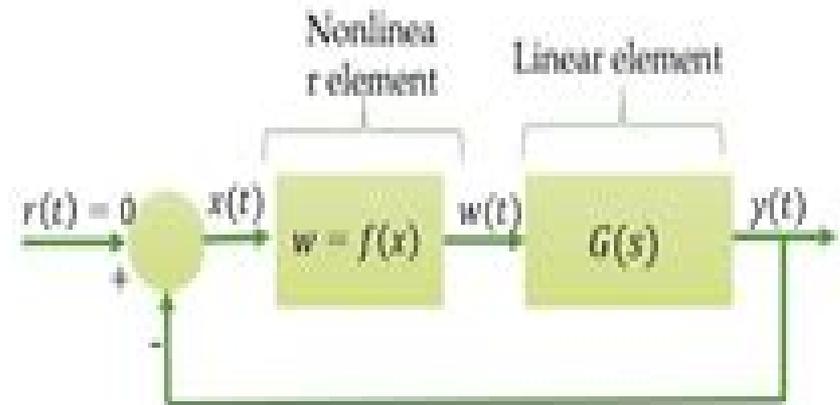


Examples – Describing Function Analysis

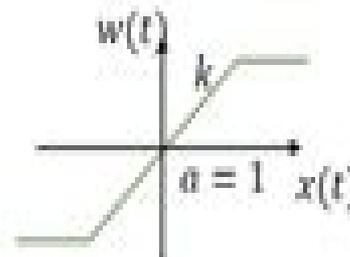
$$G(s) = \frac{-s}{s^2 + 0.8s + 8}$$



Predict the existence of LC for

- Saturation with $a = 1$
- Deadzone with $\delta = 1, k = 0.5$

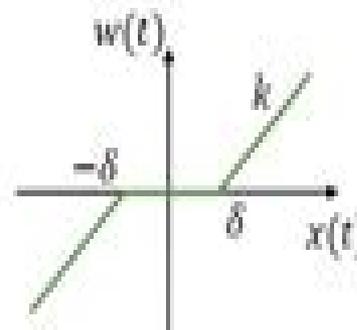
$$1 + G(j\omega)N(A, \omega) = 0$$



$$N(A) = \frac{2}{\pi} \left[\sin^{-1} \left(\frac{1}{A} \right) + \frac{1}{A} \sqrt{1 - \left(\frac{1}{A} \right)^2} \right]$$

$$1 + \operatorname{Re} [G(j\omega)N(A, \omega)] = 0$$

$$\operatorname{Im} [G(j\omega)] = 0$$



$$N(A) = \frac{1}{\pi} \left[\frac{\pi}{2} - \sin^{-1} \left(\frac{1}{A} \right) + \frac{1}{A} \sqrt{1 - \left(\frac{1}{A} \right)^2} \right]$$

Describing Function Analysis

Vinay Schridhar Sohoni



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Describing Function Analysis of a Type-1 Control System with an Asymmetrical Dead-zone Nonlinearity Richard Philip Langkammer, 1960 **A Describing Function Analysis of Systems Containing Multiple Nonlinearities** David Anthony Engels, 1962 *Describing Function Analysis for Non-linear Sampled-data Control Systems* John Malcolm MacCallum, 1965

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