

Handout 15: Describing functions, Introduction

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General Philosophy

General response of arbitrary nonlinear systems is somewhat complicated.
We usually know the systems we work with.

Work with finite families of 'most likely responses'.

Typical most likely responses:

Sinusoidal

Bias - almost 'constant' signals

Typical most likely responses:

Slow signals + fast oscillations

The filtering idea

**Basic principles for working with 'most likely responses
'Rayleigh-Ritz approximations'**