Slide 35:

Example of nonlinear feedback.

Nonlinear damping: $m\ddot{y} + f_d(y, \dot{y}) + ky = f(t)$.

1. Measure displacement and speed
2. Compute $f_d(y, \dot{y})$ from analytical expression (*Note*: There will be some error in the analytical expression, but it can be compensated for through linear control)
3. Subtract it (in feedback) from the plant.