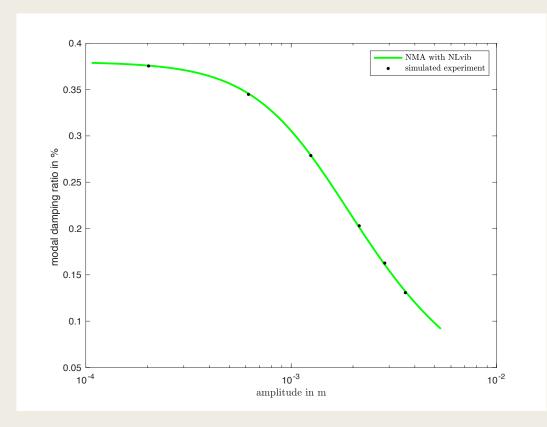
PROJECT II GROUP 2 MEETING 4

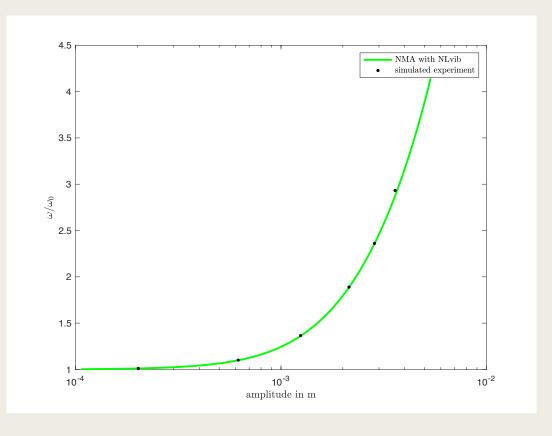
19 July 2019

Effect of imperfect excitation on NMs

- Simulate Phase Resonance Tests with pure harmonic excitation
- Add shaker + stinger into Simulink model
- Compare identified NM with reference

Benchmark Model I: Flat clamped-clamped beam model (Duffing Oscillator)



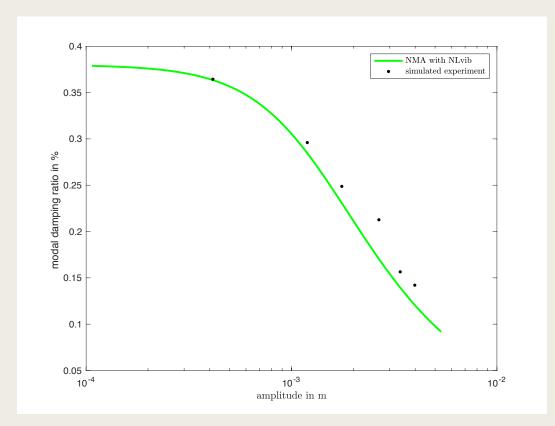


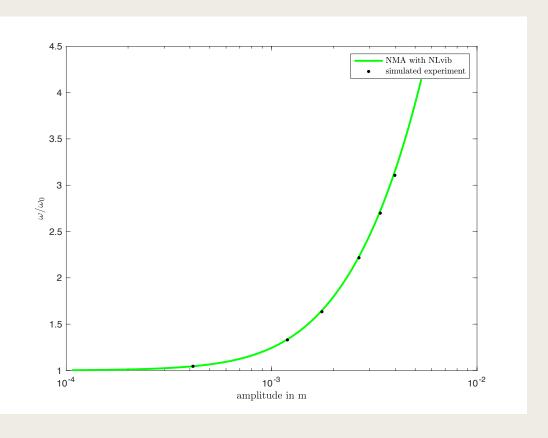
Without shaker + stinger:

P = 0

I = 50

Benchmark Model I: Flat clamped-clamped beam model (Duffing Oscillator)





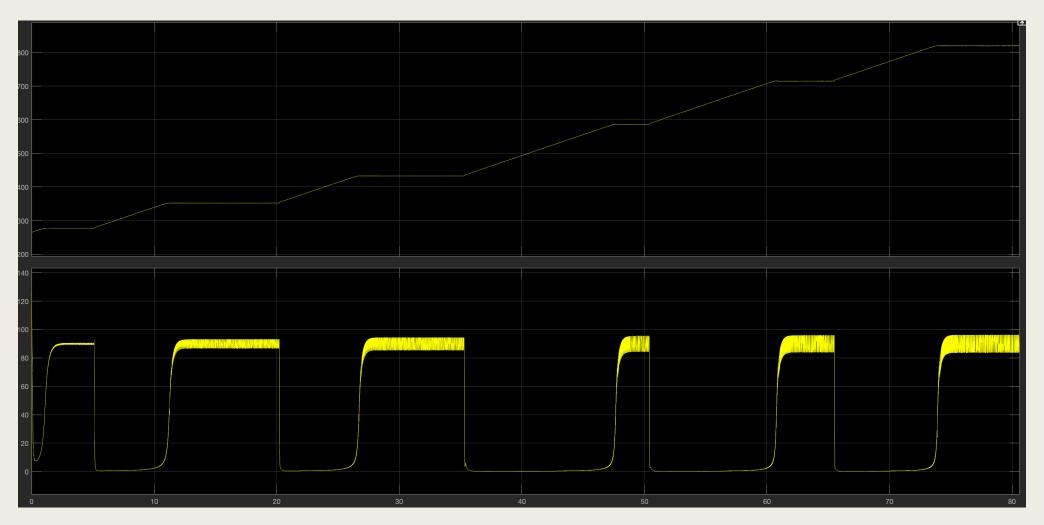
With shaker + stinger

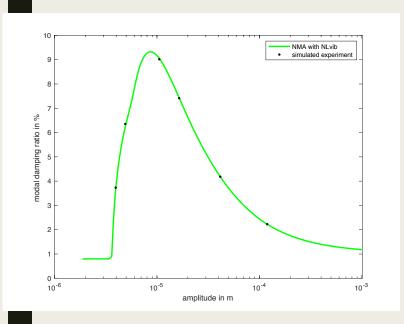
P = 10

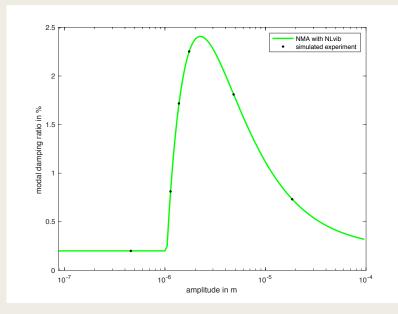
I = 50

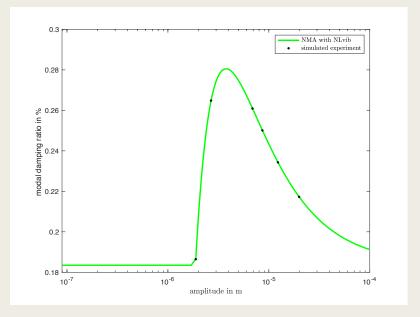
D = 0.01

Benchmark Model I: Flat clamped-clamped beam model (Duffing Oscillator)







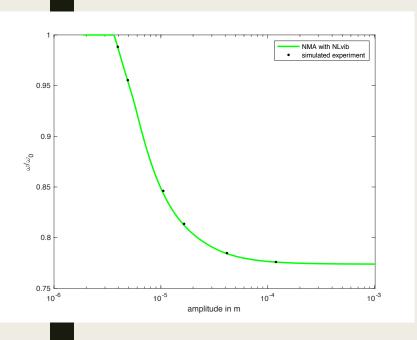


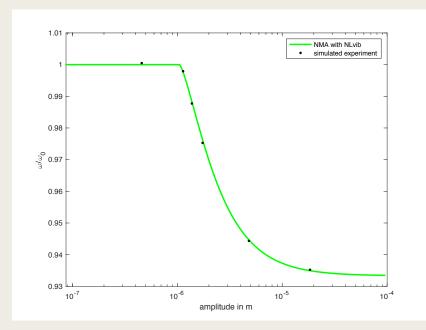
Without shaker + stinger

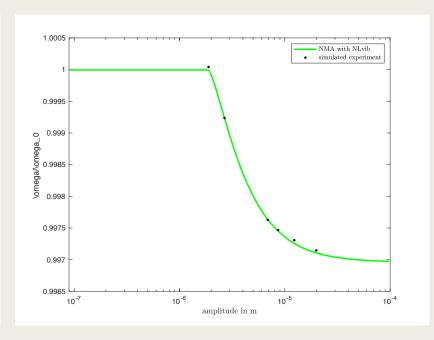
$$P = 5$$

$$I = 50$$

$$D = 0$$



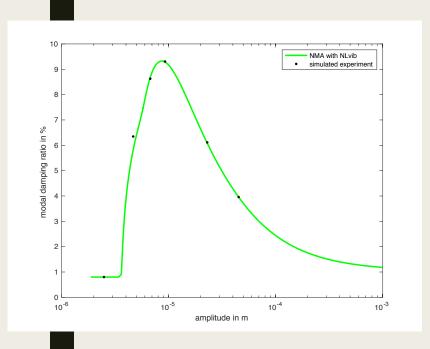


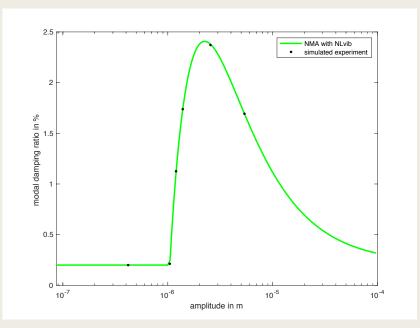


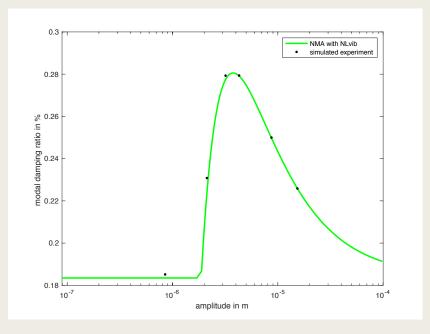
Without shaker + stinger

P = 5

I = 50



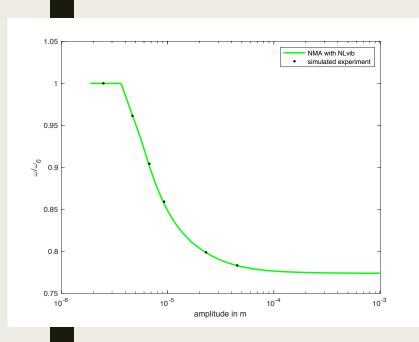


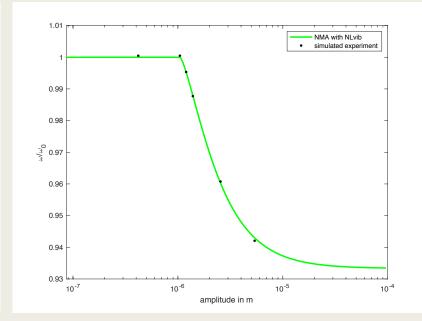


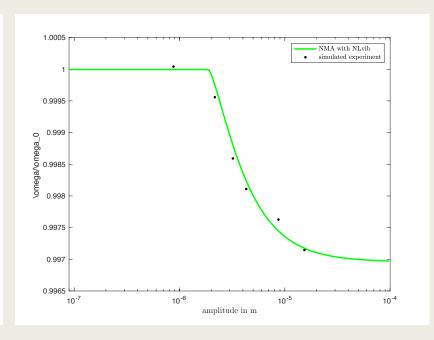
With shaker + stinger

P = 5

I = 50







With shaker + stinger

P = 5

I = 50