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|  | UTFPR - Especialização em Métodos Matemáticos Aplicados  Disciplina: Análise de Sistemas Caóticos  Discente: Cintia Izumi Shinoda |
| Trabalho 2 | |

Faça mudanças nos parâmetros (modifique uma vez cada sistema) e verifique o comportamento dos sistemas.

# Modelo Não-Linear com Excitação Periódica

Modificação: Parâmetro (fator de amortecimento mecânico)

de para

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|  |  |
| A black and white barcode  Description automatically generated | A graph showing a number of time  Description automatically generated with medium confidence |
| A black and white sound wave  Description automatically generated | A black and white graph  Description automatically generated |
| A graph showing a wave of sound  Description automatically generated with medium confidence | A black and white graph  Description automatically generated |
| A graph of a graph showing a spiraling line  Description automatically generated with medium confidence | A diagram of a cylinder  Description automatically generated |
| A graph of a graph showing a diagram of a wave  Description automatically generated with medium confidence | A graph of a circle  Description automatically generated with medium confidence |

# Modelo Linear com Excitação Não-Ideal

Modificação: Parâmetro (acoplamento piezoelétrico)

de para

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|  |  |
| A graph of a sound wave  Description automatically generated | A graph with a white background  Description automatically generated |
| A graph of a sound wave  Description automatically generated | A graph of a function  Description automatically generated |
| A graph of a waveform  Description automatically generated | A graph of a function  Description automatically generated |
| A graph showing a long stick  Description automatically generated | A graph of a curve  Description automatically generated with medium confidence |
| A graph of a function  Description automatically generated with medium confidence | A graph of a function  Description automatically generated with medium confidence |

# Modelo Não-Linear com Excitação Não-Ideal

Modificação: Parâmetro (recíproco da constante de tempo de carga)

de para

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| --- | --- |
|  |  |
| A graph of a function  Description automatically generated | A black and white graph  Description automatically generated |
| A black and white graph  Description automatically generated | A black and white graph  Description automatically generated |
| A graph with a black line  Description automatically generated | A black and white graph  Description automatically generated |
| A graph of a cylinder  Description automatically generated with medium confidence | A graph of a graph with a black oval  Description automatically generated with medium confidence |
| A black oval with a line in the middle  Description automatically generated | A diagram of a lemon  Description automatically generated |