

Worked Examples

Topic 2.6: Frequency Domain Analysis

ENGM X304 – Applied Control Systems

Assoc. Prof. William Robertson

Dr Sean McGowan

October 3, 2025

Contents

1	Concept 2.6.1: Loop Analysis	2
1.1	Example 1: Placeholder	2
2	Concept 2.6.2: Nyquist Criterion	2
2.1	Example 1: Placeholder	2
3	Concept 2.6.3: Stability Margins	2
3.1	Example 1: Placeholder	2
4	Concept 2.6.4: Minimum Phase Systems	2
4.1	Example 1: Placeholder	2

1 Concept 2.6.1: Loop Analysis

1.1 Example 1: Placeholder

This section will contain worked examples for the Loop Analysis concept.

Problem: Example problem statement will be added here.

Solution: Example solution will be added here.

2 Concept 2.6.2: Nyquist Criterion

2.1 Example 1: Placeholder

This section will contain worked examples for the Nyquist Criterion concept.

Problem: Example problem statement will be added here.

Solution: Example solution will be added here.

3 Concept 2.6.3: Stability Margins

3.1 Example 1: Placeholder

This section will contain worked examples for the Stability Margins concept.

Problem: Example problem statement will be added here.

Solution: Example solution will be added here.

4 Concept 2.6.4: Minimum Phase Systems

4.1 Example 1: Placeholder

This section will contain worked examples for the Minimum Phase Systems concept.

Problem: Example problem statement will be added here.

Solution: Example solution will be added here.