Worked Examples

Topic 2.5: Transfer Functions ENGM X304 – Applied Control Systems

Assoc. Prof. William Robertson Dr Sean McGowan

October 3, 2025

Contents

1		Frequency Domain Placeholder	2
2	Concept 2.5.2: 7 2.1 Example 1: H	Transfer Functions Placeholder	2
3	Concept 2.5.3: I 3.1 Example 1: I	Laplace Transform Placeholder	2
4	Concept 2.5.4: I 4.1 Example 1: I	Block Diagrams Placeholder	2
	Concept 2.5.6: I 6.1 Example 1: I	Bode Plots Placeholder	3

1 Concept 2.5.1: Frequency Domain

1.1 Example 1: Placeholder

This section will contain worked examples for the Frequency Domain concept.

Problem: Example problem statement will be added here.

Solution: Example solution will be added here.

2 Concept 2.5.2: Transfer Functions

2.1 Example 1: Placeholder

This section will contain worked examples for the Transfer Functions concept.

Problem: Example problem statement will be added here.

Solution: Example solution will be added here.

3 Concept 2.5.3: Laplace Transform

3.1 Example 1: Placeholder

This section will contain worked examples for the Laplace Transform concept.

Problem: Example problem statement will be added here.

Solution: Example solution will be added here.

4 Concept 2.5.4: Block Diagrams

4.1 Example 1: Placeholder

This section will contain worked examples for the Block Diagrams concept.

Problem: Example problem statement will be added here.

Solution: Example solution will be added here.

5 Concept 2.5.5: DC Gain

5.1 Example 1: Placeholder

This section will contain worked examples for the DC Gain concept.

Problem: Example problem statement will be added here.

Solution: Example solution will be added here.

6 Concept 2.5.6: Bode Plots

6.1 Example 1: Placeholder

This section will contain worked examples for the Bode Plots concept.

Problem: Example problem statement will be added here.

Solution: Example solution will be added here.