

Experiment 2.1

Objectives To learn to use MATLAB to (1) generate polynomials, (2) manipulate polynomials, (3) generate transfer functions, (4) manipulate transfer functions, and (5) perform partial-fraction expansions.

Minimum Required Software Packages MATLAB and the Control System Toolbox

Prelab

1. Calculate the following by hand or with a calculator:

- The roots of $P_1 = s^6 + 7s^5 + 2s^4 + 9s^3 + 10s^2 + 12s + 15$
- The roots of $P_2 = s^6 + 9s^5 + 8s^4 + 9s^3 + 12s^2 + 15s + 20$
- $P_3 = P_1 + P_2$; $P_4 = P_1 - P_2$; $P_5 = P_1 P_2$

2. Calculate by hand or with a calculator the polynomial

$$P_6 = (s + 7)(s + 8)(s + 3)(s + 5)(s + 9)(s + 10)$$

3. Calculate by hand or with a calculator the following transfer functions:

$$\text{a. } G_1(s) = \frac{20(s + 2)(s + 3)(s + 6)(s + 8)}{s(s + 7)(s + 9)(s + 10)(s + 15)}$$

represented as a numerator polynomial divided by a denominator polynomial.

$$\text{b. } G_2(s) = \frac{s^4 + 17s^3 + 99s^2 + 223s + 140}{s^5 + 32s^4 + 363s^3 + 2092s^2 + 5052s + 4320}$$

expressed as factors in the numerator divided by factors in the denominator, similar to the form of $G_1(s)$ in Prelab 3a.

$$\text{c. } G_3(s) = G_1(s) + G_2(s); G_4(s) = G_1(s) - G_2(s); G_5(s) = G_1(s)G_2(s)$$

expressed as factors divided by factors and expressed as polynomials divided by polynomials.

4. Calculate by hand or with a calculator the partial-fraction expansion of the following transfer functions:

$$\text{a. } G_6 = \frac{5(s + 2)}{s(s^2 + 8s + 15)}$$

$$\text{b. } G_7 = \frac{5(s + 2)}{s(s^2 + 6s + 9)}$$

$$\text{c. } G_8 = \frac{5(s + 2)}{s(s^2 + 6s + 34)}$$

Lab

- Use MATLAB to find P_3 , P_4 , and P_5 in Prelab 1.
- Use only one MATLAB command to find P_6 in Prelab 2.
- Use only two MATLAB commands to find $G_1(s)$ in Prelab 3a represented as a polynomial divided by a polynomial.

- Use only two MATLAB commands to find $G_2(s)$ expressed as factors in the numerator divided by factors in the denominator.
- Using various combinations of $G_1(s)$ and $G_2(s)$, find $G_3(s)$, $G_4(s)$, and $G_5(s)$. Various combinations implies mixing and matching $G_1(s)$ and $G_2(s)$ expressed as factors and polynomials. For example, in finding $G_3(s)$, $G_1(s)$ can be expressed in factored form and $G_2(s)$ can be expressed in polynomial form. Another combination is $G_1(s)$ and $G_2(s)$ both expressed as polynomials. Still another combination is $G_1(s)$ and $G_2(s)$ both expressed in factored form.
- Use MATLAB to evaluate the partial fraction expansions shown in Prelab 4.

Postlab

- Discuss your findings for Lab 5. What can you conclude?

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Annelies Wilder-Smith



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