Q4) Trajectory planning

▶ Write a Matlab function which constructs a quintic polynomial, for the purposes of trajectory generation, given the following input parameters

t_0: Initial time t_f: Final time

y_0: Initial position y_f: Final position

$\dot{y}_0$: Initial velocity $\dot{y}_f$: Final velocity

$\ddot{y}_0$: Initial acceleration $\ddot{y}_f$: Final acceleration

An example function prototype is shown below

$$[t, \ y, \ \dot{y}, \ \ddot{y}] = \texttt{QuinticPolynomial}(t_0, \ t_f, \ y_0, \ y_f, \ \dot{y}_0, \ \dot{y}_f, \ \ddot{y}_0, \ \ddot{y}_f, \ n)$$

where n is the number of elements in the time vector and output arrays ($[y, \ \dot{y}, \ \ddot{y}]$)

t : n-dimensional array of trajectory time

y : n-dimensional array of trajectory position

$\dot{y}$: n-dimensional array of trajectory velocity

$\ddot{y}$: n-dimensional array of trajectory acceleration

▶ To check your function, create and plot the trajectory for the input parameters given below:

t_0:   0 t_f: 5

y_0:   -10 y_f: 10

$\dot{y}_0$:   -50 $\dot{y}_f$:   -50

$\ddot{y}_0$:   0 $\ddot{y}_f$:   0

```
e.g    [t, y, dy, ddy] = QuinticPolynomial(0,5,-10,10,-50,50,0,0,1000);
       figure; plot(t,y);
       figure; plot(t, dy);
       figure; plot(t, ddy);
```

Use code below:

Matlab Code For Trajectory Planning Sdocuments2

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Matlab Code For Trajectory Planning Sdocuments2:

This book delves into Matlab Code For Trajectory Planning Sdocuments2. Matlab Code For Trajectory Planning Sdocuments2 is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Matlab Code For Trajectory Planning Sdocuments2, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

    - Chapter 1: Introduction to Matlab Code For Trajectory Planning Sdocuments2
    - Chapter 2: Essential Elements of Matlab Code For Trajectory Planning Sdocuments2
    - Chapter 3: Matlab Code For Trajectory Planning Sdocuments2 in Everyday Life
    - Chapter 4: Matlab Code For Trajectory Planning Sdocuments2 in Specific Contexts
    - Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Matlab Code For Trajectory Planning Sdocuments2. This chapter will explore what Matlab Code For Trajectory Planning Sdocuments2 is, why Matlab Code For Trajectory Planning Sdocuments2 is vital, and how to effectively learn about Matlab Code For Trajectory Planning Sdocuments2.
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6. In chapter 5, the author will draw a conclusion about Matlab Code For Trajectory Planning Sdocuments2. The final chapter will summarize the key points that have been discussed throughout the book.
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