

I'm not robot!

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```

basic matlab commands need to learn
January 24, 2023 at 11:23am
MATLAB COMMANDS
1. sum(a)
2. A(i,:)
3. sum(A(i,:))
4. sum(A)
5. find(A)
6. diag([1 2 3 4])
7. A(2,2:4)
8. To add an element,
9. A(5,5)=7; then 5^5 = 3125
10. 1:10 = 1 2 3 4 5 6 7 8 9 10
11. A(1:3,4) refers to first 3 elements of 4th column of matrix (a)
12. A(:,end) refers to sum of all the elements of last column of a
13. 0 + pi/4 + 2*pi
ans = 0 0.7854 1.5708 2.3562 3.1416 3.9270 4.7124 5.4978
4.2832
14. magic function creates a square matrix automatically that has magic numbers
i.e. all the rows and columns add upto same no., eg
8 = magic(8)
8 =
16 2 3 13
5 11 10 8
9 7 6 12
4 14 15 1
15. Shuffling of 2 columns of a matrix b, a = b(1:(1 3 2 4))
A =
16 3 2 13
5 10 11 8
9 6 7 12
4 15 14 1
This is Durren's engraving matrix
16. Elementary matrices
zeros - zeros array,

```

## MATLAB

To suppress echo, end the line with semicolon

```

MATLAB Course
Current Folder
Workspace
Command Window
>> mag(18)
ans =
2.7183 7.3891 148.4132
>> mag(18)
ans =
2.7183
7.3891
148.4132
>> pi
ans =
3.1416
>> pi/4
ans =
0.7854
>> pi
ans =
3.1416
>> clear pi
>> pi
ans =
3.1416
>> clear all

```

to clear a specific variable

Concatenation- vertical and horizontal  
Lecture 1.2 at 7min

Colon notation

```

MATLAB 7.10.0 (R2010a)
>> expand(2*(x-3))
ans =
2*x - 6
>> expand((2*x-3)*(2*x+3))
ans =
4*x^2 - 9
>> expand((x-1)*(x-3)*(x+3))
ans =
x^3 - x^2 - 9*x + 9
>>

```

### Three-Phase SV-PWM Converter

This example shows the open-loop speed control of an induction motor using constant V/Hz principle and a space vector (SV) PWM technique.

**Three-Phase SV-PWM Converter**

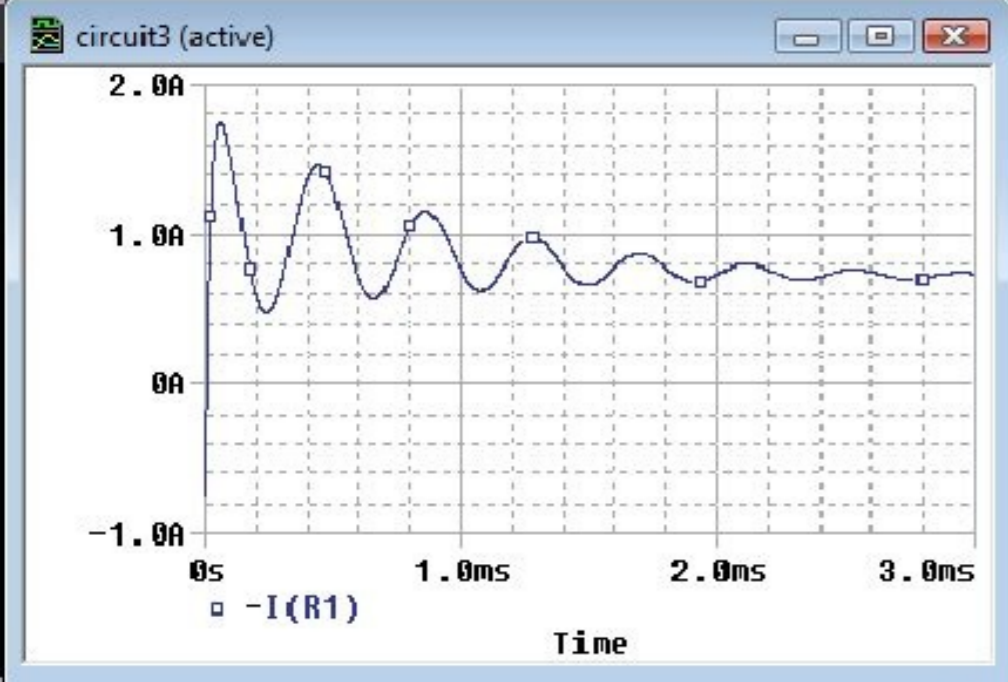
**Description**

A 3-phase squirrel-cage motor rated 3 HP, 230V, 60 Hz, 1725 rpm is fed by a 3-phase MOSFET inverter connected to a DC voltage source of 320 V. The inverter is modeled using the "Universal Bridge" block and the motor by the "Electromechanical" block. The reference magnitude  $V_{ref}$  is set to trace its actual value to simulate the effect of a smoothing reactor placed between the inverter and the machine. The load torque applied to the machine's shaft is constant and set to its nominal value of 0.5 N·m.

The firing pulses to the inverter are generated by the "Space-Vector PWM modulator" block of the SPS library. The chopping frequency is set to 1980 Hz and the input reference vector to "Magnitude-Angle".

Speed control of the motor is performed by the "Constant V/Hz" block. The magnitude and frequency of the stator voltages are set based on the speed setpoint. By varying the stator voltage magnitude in proportion with frequency, the stator flux is kept constant.

<http://nl.mathworks.com/help/sps/examples/3-phase-sv-pwm-converter.html>



View Discussion Improve Article Save Article Like Article Matplotlib is a library in Python and it is numerical  $\epsilon$  mathematical extension for NumPy library. Pyplot is a state-based interface to a Matplotlib module which provides a MATLAB-like interface. The `annotate()` function in pyplot module of matplotlib library is used to get and set the current tick locations and labels of the x-axis. Syntax: `matplotlib.pyplot.xticks(ticks=None, labels=None, **kwargs)` Parameters: This method accept the following parameters that are described below: `ticks`: This parameter is the list of xtick locations, and an optional parameter. If an empty list is passed as an argument then it will remove all xticks: This parameter contains labels to place at the given ticks locations. And it is an optional parameter: `**kwargs`: This parameter is Text properties that is used to control the appearance of the labels. Returns: This returns the following: `locs`: This returns the list of ytick locations. `labels`: This returns the list of ylabel Text objects. The resultant is `(locs, labels)`. Below examples illustrate the `matplotlib.pyplot.xticks()` function in `matplotlib.pyplot`: Example #1: `import numpy as np; import matplotlib.pyplot as plt; x = [1, 2, 3, 4]; y = [95, 30, 54, 35]; labels = ['Geeks1', 'Geeks2', 'Geeks3', 'Geeks4']; plt.plot(x, y); plt.xticks(x, labels, rotation='vertical'); plt.subplots_adjust(bottom=0.15); plt.show()` Output: Example #2: `import matplotlib.pyplot as plt; from mpl_toolkits.axes_grid1.inset_locator import inset_axes; zoomed_inset_axes = get_demo_image(); fig, ax = plt.subplots(figsize=[5, 4]); Z, extent = get_demo_image(ax.set(aspect=1.0, xlim=(0, 50))); axins = zoomed_inset_axes(ax, zoom=2, loc='upper right'); im = axins.imshow(Z, extent=extent, interpolation='nearest', origin='upper'); plt.xlabel('X-axis'); plt.ylabel('Y-axis'); plt.xticks(visible=False); plt.yticks(visible=False); plt.grid(True); plt.savefig('axins.png') Introduction to Matlab xticks The xticks function is used in Matlab to assign tick values & labels to the x-axis of a graph or plot. By default, the plot function (used to draw any plot) in Matlab creates ticks as per the default scale, but we might need to have ticks based on our requirement. Adding ticks as per our need and labelling them make the plots more intuitive and easier to understand. For this, we can use the xticks function along with the xticklabels function in Matlab to identify the values of our choice on the plots easily. Syntax of xticks function: xticks(A; B; C) Explanation: xticks(A) is used to set the ticks defined by the vector A. Please note that A must have values in the ascending order. xticks(A; B; C) is used to set the ticks defined by the range A. With a B gap between ticks. Examples of Matlab XTicks that are detailed: Use the XTicks function to establish ticks for the X axis. Use the XTickLabels function to establish labels for ticks defined in the previous step. Code: A = 0: Pi/50: 2*Pi; [Initializing the range for the sinusoidal wave] b = without(a); [Initialization of the sinusoidal wave] [a, b] using the graphic function to draw the sinusoidal wave] xticks([0 3 6]) [Using the XTicks function to establish the ticks for the X axis] XTickLabels ( a = 0: Pi/100: 3*Pi; [Initialize the range for the cos wave] b = cos(a); [Initialization of the cos wave] (a, b) [using the graphic function to draw the cos] xticks wave ([0 3 6 9]) [using the XTicks function to establish the ticks for the X axis x] XTickLabels " , - a, e, a e a -a e See at the exit, we have obtained ticks from our choice, that is, 0, 3, 6, 9, using the XTicks function. We have also established the labels for these ticks using the function. In the 2 above examples, we have approved all the values we want to establish as the ticks of a plot as arguments for the XTicks function. Then we will see how to establish a range of values with a fixed interval like the ticks of a plot. Example #3 In this example, we will use the layout function to draw a sinusoidal wave and then we will set the ticks by passing a range as an argument to the XTicks function. Below are the steps to follow: type the code to create a sinusoidal wave. Use the XTicks function to set ticks for the X axis. Use the XTickLabels function to set the labels for ticks defined in the previous step. Code: a = linspace(0, 50) [initializing the range for the sinusoidal wave] b = no(a); [initialization of the sinusoidal wave] (a, b) [using the graphic function to trace the sinusoidal wave] xticks([0: 10: 10]) [using the XTicks function to establish the ticks obtained for the x-axis] Conclusion The XTICKS function is used in MATLAB to assign tick values to the X-axis. The XTickLabels function can be used along with the XTicks function to label the assigned ticks. Both a range and a set of values can be passed as an argument to the XTicks function. Recommended items This is a Matlab XTicks guide. Here we discuss the introduction and examples of Matlab XTicks for better understanding. You can also take a look at the following articles for more information: What is Matlab? Matlab graphical limit Matlab Absolute value Matlab Matlab`

Step 5: Write unit step command. Step 6: Finally plot the function. We also plot a transfer function response by using a step function. Steps are as follows: Step 1: Take a numerator in a variable. Step 2: Take denominator in another variable. Step 3: Generate transfer function using 'tf' function and assign to sys1 variable. Step 4: Use step function to plot a response. Example of MATLAB Exponential Function. Below are the examples of MATLAB Exponential: Now we have brushed our understanding of exponential function, let's understand its use in MATLAB. Syntax: `exp(X)` `y = exp` will return the exponential function 'e' raised to the power 'x' for every element in the array X.

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