Index of Matlab files

Files are placed into folders based on the date that they were started. Index describes files using the following format

Date

“File description or assignment description” page number (p.##)

* “File name”

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1. Homework 1 – Find 2 good webinars or other videos for Matlab, and find a simple example for Matlab on the file exchange website.

- “Links.txt”

- “2 examples.zip”

1. List 2 reasons that you are taking this course

- “my reasons.txt”

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1. Example 1.1 – do the example – p.6

- “Example 1.1 conversion of matter to energy.zip”

1. Build a sine wave with 100 data points using the function “f(t)=A\*sin(30t)” where a =5 in excel and save the Matlab data in .mat format

- “scatterplots.xlsx”

- “Scatter plot +getting started.mat”

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1. Exercise 2.1 – use Matlab and excel to perform simple calculations. P.11

- “practice 2.1.zip” includes .xslx & .txt

1. Exercise 2.2 – use Matlab to determine if the given set of commands are acceptable using isvarname and iskeyword. P.19

- “practice exercise 2.2.xlsx”

1. Example 2.1 - scalar operations p.25

- “Example 2.1.zip” includes .xslx & .txt

1. Example 2.2 – matrix calculations with scalars p.32

- “Example 2.2 matrix calculations with scalars.zip” includes .xslx & .txt

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1. Slide 16

“ch3 lecture slide 16.txt”

1. Example 2.3 – drag- do the example p. 35

- “example 2.3.zip”

1. Practice exercise 3.2 –p.69

“Practice exercise 3.2.txt”

1. Example 3.1 – using the Clausius-clapeyron equation p.70

“example 3.1.zip”

1. Example 3.2 – using trigonometric functions. p77

“example 3.2.zip”

1. Example 3.3 – weather data p.89

“example 3.3.zip”

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1. Page 95 - student scores

“scores.zip”

1. Example 3.4 – climatological data p.96

“example 3.4.zip”

1. Example 3.5 – Noise

“example\_3.5.m”

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1. Example 4.1 – Using temperature data p.127

“example 4.1.zip”

1. Example 4.2 – Distance to the horizon

“example 4.2.zip”

1. Example 4.3 – Free fall

“example4\_3.m”

1. Example 4.3 – Free fall w/ 9 planet modification

“example4\_3\_9planets.m”

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1. Power point slides

“slides.zip”

1. Figure 5.4 – multiline plots

“fig5\_4.m”

1. Figure 5.5 - multiline plots

“fig5\_5.m”

1. Figure 5.6- plots of complex arrays

“fig5\_6.m”

1. Figure 5.7 - multiline plots

“figure5\_7.m”

1. Figure 5.8 – line formatting

“figure5\_8.m”

1. Example 5.1 – using the Clausius-clapeyron equation

“example 5.1.zip”

1. Example 5.2 – ballistics

“example 5.2.zip”

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1. Chapter 5, part 4, subpart 1 – Three dimensional line plotting

“Ch5\_5\_4\_1.m”

1. Chapter 5, part 4, subpart 2 – surface plots

“Ch5\_5\_4\_2.m”

1. Example 5.3 – Rates of diffusion

“example\_5\_3.m”

1. Example 5.4 – Weight distributions

“Example 5.4.rar”

1. Example 5.4 – Weight distributions – using excel numbers

“Example 5.4-excel.rar”

1. Practice exercise 5.3

“practice\_excercise\_5\_3.m”

1. Figure 5.14 – subplots

“figure5p14.m”

1. Figure 5.16 – polar plot

“figure5p16.m”

1. Slides

“slides.zip”

3/30/15

1. Example 6.1 – Converting between degrees and radians

“example6\_1.zip”

1. Example 6.2 – Grain size

“example 6.2.zip”

1. Example 6.3 – How grain size affects metal strength: a function with three inputs

“example 6.3.zip”

1. Example 6.4 – Kinetic energy: a function with two inputs

“example 6.4.zip”

1. Map of salt lake using geological data

“map salt lake.zip”

1. Function that calculates the value of a third-order polynomial

“poly.m”

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1. Bug – fix the given code

“Bug-fixed.m”

1. 555 timer calculations

“calc 555 timer.zip”

1. Part 7.2 -Formatted Output—The fprintf Function

“ch7\_7\_2.m”

1. Part7.3 -Formatted Output—The sprintf Function

“ch7\_7\_3.m”

1. Example 7.1 - Freely falling objects

“example7\_1.zip”

1. Example 7.2 -Free Fall: Formatted Output

“example7\_2.m”

1. Example 7.3 - Projectile Motion: Annotating A Graph

“example7\_3.m”

1. Example 7.4 - Interactively Adjusting Parameters

“example7\_4.m”

1. Figure 5.4 -Plots with More than One Line

“Fig5\_4.m”

1. Page 249

“p\_249.m”

1. Page 250

“p\_250.m”

1. Page 260

“p\_260.m”

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1. Slides

“slides.m”

1. Example 8.1 - Signal Processing Using The Sinc Function

“Example 8.1.zip”

1. Example 8.2 - Assigning Grades

“Example 8.2.zip”

1. Example 8.3 and example 8.4

“example\_8\_3\_and\_4”

1. Chapter 8, part1 subpart 2

“ch\_8\_1\_2.m”

1. Chapter 8 part 2 - Flowcharts and pseudocode

“ch\_8\_2\_p276.m”

1. Chapter 8, part3 subpart 1 – Find

“ch\_8\_3.m”

1. Chapter 8, part3 subpart 2 - Flowcharting and Pseudocode for Find Commands

“ch\_8\_3\_2.m”

1. Chapter 8 part 4 subpart 3

“p\_285.m”

1. Find it –

“findit.m”

1. Find it 2 –

“findit2.m”

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1. Example 9.1

“example\_9\_1.m”

1. Example 9.2

“example 9.2.zip”

1. Example 9.3

“example\_9\_1.zip”

1. Example 9.1 and 9.3 fixed for 0°-360°

“Example 9.1 &9.3 fixed (0-360°).zip”

1. Chapter 9.1 notes
2. “ch\_9\_1\_notes.m”

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1. Example 16.1 -Random Numbers

“Example\_16\_1.slx”

1. Example 16.2 – Velocity of a falling object

“Example\_16\_2.slx”

1. Example 16.3 – Position of a falling object

“Example\_16\_3.slx”

1. Model building

“model\_building.slx”

1. Chapter 16 part 2 – Getting started

“CH\_16\_2.mdl”

1. Chapter 16 part 3
2. “CH\_16\_3.mdl”