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with an example that illustrates how those commands are used, and ends with practice problems for you to solve. The following are a few guidelines to keep in mind as you work through the examples: a)You must turn in all Matlab code that you write to solve the given problems. A convenient method is to copy and paste the code into a word processor.

SOLUTIONS, MATLAB Problems, Problem Set 1 18.06 allF '12 This problem set is due Thursda,y September 13, 2012 by 4pm in 2-255. The problems are out of the 4th edition of the textbook. orF computational problems, please include a

exercise problems at the end, and also have the solutions to them. So please try them! Some of you may be entirely familiar with all that I talk about in the following pages and may even prefer to skip entirely what is pretty much a rudimentary instruction manual. All I wish to convey is that Matlab is not an intimidating computer

Beginning Matlab Exercises R. J. Braun Department of Mathematical Sciences University of Delaware 1 Introduction This collection of exercises is intended to help you start learning Matlab. Matlab is a huge package with many capabilities, but it is easy to use on many levels.

Figure 1.1: Solutions to equation (1.3). 2 Finding Numerical Solutions MATLAB has a number of tools for numerically solving ordinary di?erential equations. We will focus on the main two, the built-in functions ode23 and ode45, which implement versions of Runge–Kutta 2nd/3rd-order and Runge–Kutta 4th/5th-order, respectively. 4

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1 Matlab solution to di?usion-reaction problems Di?usion-Reaction problems are very common in chemical reaction engineering and often numerical solutions are needed. Here we look at using matlab to obtain such solutions and get results of design interest. Consider a model problem represented as: d2c dx2 = f(c) (1)

MATLAB R Exercises (for Chapters 1-14) Branislav M. Notaro?s worked examples, as well as the end-of-chapter problems. MATLABR (by MathWorks, Inc.) is chosen not ? MATLAB solutions to nonlinear problems: • Graphical and numerical solutions for a simple nonlinear electric circuit

MATLAB, with a chapter or two on some programming concepts, and those that cover only the programming constructs without mentioning many of the built-in functions that make MATLAB efficient to use. Someone who learns just the built-in functions will be well-prepared to use MATLAB, but would not under-stand basic programming concepts.

Solutions to Problems in Chapter Two Test Your Understanding Problems We can use an array operation in Matlab to compute r for each of these combinations by de ning two 5 4 matrices R_L and R_S. The ve rows of R_L contain the ve values of RL, and its four columns are identical. The four columns ofR_S contain the four values of