

# Essentials of MATLAB Programming 3rd Edition Chapman

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## 4. Branching Statements and Program Design

4.1 (a) false (0) (b) false (0) (c) The first term  $(17 - p1 < 15)$  is true (1), and the second term  $(p1 < 3)$  is false (0), so the `xor` function is true (1). (d) The true is converted to 1, and the false is converted to 0, so the result of the expression `true > false` is true (1). (e) The expression  $(35 / 17)$  is 2.0588. Therefore, the expression  $-(35 / 17)$  is false (0), and the expression  $--(35 / 17)$  is true (1). Since  $1 \neq 2.0588$ , the overall expression is false (0). (f) false (0) (g) false (0) (h) true (1)

4.2 The `if` structure is:

```
% Convert to radians
theta_rad = theta * pi / 180;

% Calculate tangent
if abs(cos(theta_rad)) > 1E-20
    tan = sin(theta_rad) / cos(theta_rad)
else
    disp('Error: cos(theta) too small');
end
```

4.3 These statements will execute, but they will not produce the result that the programmer wanted. An `if/elseif/else` structure will take the *first* valid branch, and ignore all others. Thus, if the temperature is 105, the statement will display the message 'Temperature normal' instead of the desired message. This problem can be fixed by restructuring the order of the statements. In addition, the structure would not print out a message if the temperature were exactly 97.5°. A corrected version of the statements is shown below.

```
if temp < 97.5
    disp('Temperature below normal');
```

# Essentials Of Matlab Programming Second Edition Chapman

**Jessica J Manson**



## **Essentials Of Matlab Programming Second Edition Chapman:**

**Essentials of MATLAB Programming** Stephen J. Chapman, 2009 Teaches how to program using MATLAB as a technical programming language as well as teaching students the basics of computer programming Using top down design methodology this text encourages students to think about the proper design of a program before coding

**Essentials of MATLAB Programming, Loose-Leaf Version** Stephen J. Chapman, 2017-01-01 MATLAB KUMAR, S. SWAPNA, LENINA, S V B, 2016-01-30 MATLAB Easy Way of Learning covers exactly what students need to know in an introductory course This comprehensive book helps reader in understanding all the aspects of MATLAB basics and applications in an easy way The authors explain concepts by balanced treatment of theoretical and practical concepts with easy to understand programming codes and executions The book is suitable for the postgraduate and undergraduate students of engineering and sciences streams

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Introduction to Modeling and Numerical Methods for Biomedical and Chemical Engineers Edward Gatzke, 2021-09-02 This textbook introduces the concepts and tools that biomedical and chemical engineering students need to know in order to translate engineering problems into a numerical representation using scientific fundamentals Modeling concepts focus on problems that are directly related to biomedical and chemical engineering A variety of computational tools are presented including MATLAB Excel Mathcad and COMSOL and a brief introduction to each tool is accompanied by multiple computer lab experiences The numerical methods covered are basic linear algebra and basic statistics and traditional methods like Newton s method Euler Integration and trapezoidal integration The book presents the reader with numerous examples and worked problems and practice problems are included at the end of each chapter

*The British National Bibliography* Arthur James Wells, 2009 *Essentials of MATLAB Programming* Stephen Chapman, 2017 *Subject Guide to Books in Print*, 2001 **MATLAB Programming for Engineers** Stephen J. Chapman, 2002 A guide to MATLAB as a programming language to solve technical problems The first six chapters are designed to serve as a text for an introductory programming and problem solving course for freshman engineering students while the remaining four chapters covering advanced topics such as input output and graphical user interfaces can be used as a reference by engineering students or engineers who use MATLAB in their jobs The second edition is devoted to MATLAB versions 6 0 and 6 1 c Book News Inc **Engineering Student Survival Guide (BEST Series)** Krista Donaldson, 2004-04-29 The third edition of this wildly successful text provides information and strategies for engineering students to get the most out of their college education From freshman orientation to senior year and beyond this book covers topics pertinent and unique to all engineering students *Mathematical Reviews*, 2006 **Forthcoming Books** Rose Army, 2004 *Technometrics*, 2005 *Applied Numerical Methods for Engineers and Scientists* Singiresu S. Rao, 2002 This book includes over 800 problems including open ended project type and design problems Chapter topics include Introduction to Numerical Methods Solution of Nonlinear Equations Simultaneous Linear Algebraic Equations

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