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2.7.3 The one-line if-else statement; 2.7.4 elseif; 2.7.5 Logical operators; 2.7.6 Multiple ifs versus elseif; 2.7.7 Nested ifs; 2.7.8 Vectorizing ifs?; 2.7.9 switch; 2.8 Complex numbers; 2.9 More on input and output; 2.9.1 fprintf; 2.9.2 Output to a disk file with fprintf; 2.9.3 General file I/O; 2.9.4 Saving and loading data; 2.10 Odds 'n ends; 2.10.1 Variables, functions and scripts with the same name; 2.10.2 The input statement; 2.10.3 Shelling out to the operating system; 2.10.4 More Help functions; 2.11 Programming style; Chapter 3 Program design and algorithm development; 3.1 Computer program design process; 3.1.1 Projectile problem example; 3.2 Other examples of structure plans; 3.2.1 Quadratic equation; 3.3 Structured programming with functions; Chapter 4 MATLAB functions & *data import-export utilities; 4.1 Some common functions; 4.2 *Importing and exporting data; 4.2.1 The load and save commands; 4.2.2 Exporting text (ASCII) data; 4.2.3 Importing text (ASCII) data; 4.2.4 Exporting binary data; 4.2.5 The Import Wizard; 4.2.6 Low-level file I/O functions; 4.2.7 Other import/export functions; Chapter 5 Logical vectors; 5.1 Examples; 5.1.1 Discontinuous graphs; 5.1.2 Avoiding division by zero; 5.1.3 Avoiding infinity; 5.1.4 Counting random numbers; 5.1.5 Rolling dice; 5.2 Logical operators; 5.2.1 Operator precedence; 5.2.2 Danger; 5.2.3 Logical operators and vectors; 5.3 Subscripting with logical vectors; 5.4 Logical functions; 5.4.1 Using any and all; 5.5 Logical vectors instead of elseif ladders

Sommario/riassunto

The essential guide to MATLAB as a problem solving tool
 This text presents MATLAB both as a mathematical tool and a programming language, giving a concise and easy to master introduction to its potential and power. Stressing the importance of a structured approach to problem solving, the text gives a step-by-step method for program design and algorithm development. The fundamentals of MATLAB are illustrated throughout with many examples from a wide range of familiar scientific and engineering areas, as well as from everyday life.
 Features: Includes MATLAB Version
