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Autore	Valentine D. T. <1946->
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Nota di contenuto	Cover; Copyright Page; Contents; Preface to the third edition; PART I: ESSENTIALS; Chapter 1 Introduction; 1.1 Using MATLAB; 1.2 The MATLAB desktop; 1.3 Sample program; 1.3.1 Cut and paste; 1.3.2 Saving a program: script files; 1.3.3 How a program works; Chapter 2 MATLAB fundamentals; 2.1 Variables and the workspace; 2.1.1 Variables; 2.1.2 Case sensitivity; 2.1.3 The workspace; 2.1.4 Adding commonly used constants to the workspace; 2.2 Arrays: vectors and matrices; 2.2.1 Initializing vectors: explicit lists; 2.2.2 Initializing vectors: the colon operator; 2.2.3 linspace 2.2.4 Transposing vectors2.2.5 Subscripts; 2.2.6 Matrices; 2.2.7 Capturing output; 2.3 Vertical motion under gravity; 2.4 Operators, expressions and statements; 2.4.1 Numbers; 2.4.2 Data types; 2.4.3 Arithmetic operators; 2.4.4 Precedence of operators; 2.4.5 The colon operator; 2.4.6 The transpose operator; 2.4.7 Arithmetic operations on arrays; 2.4.8 Expressions; 2.4.9 Statements; 2.4.10 Statements, commands and functions; 2.4.11 Vectorization of formulae; 2.5 Output; 2.5.1 disp; 2.5.2 format; 2.5.3 Scale factors; 2.6 Repeating with for; 2.6.1 Square roots with Newton's method 2.6.2 Factorials!2.6.3 Limit of a sequence; 2.6.4 The basic for construct; 2.6.5 for in a single line; 2.6.6 More general for; 2.6.7 Avoid for loops by vectorizing!; 2.6.8 A common mistake: for less loops!; 2.7

Decisions; 2.7.1 The one-line if statement; 2.7.2 The if-else construct; 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  
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5.5 Logical vectors instead of elseif ladders

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## 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

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Soggetti	Regionalism Regionalism - Europe Ethnic groups Emigration and immigration International relations Periodicals. Europe
Lingua di pubblicazione	Inglese
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Sommario/riassunto	Dedicated to the advancement and development of latest thinking in the border, borderlands and regional studies. The Journal publishes articles from different disciplines that cover and explain the problems of regions, borders, and borderlands or different phenomena affected by the processes of bordering, de-bordering, re-bordering, and regionalization. Due to the interdisciplinary character of borderlands studies, the journal consists of articles published by political scientists, geographers, sociologists, economists, and also scholars from other disciplines.