

12. The following two vectors are defined in MATLAB:

$$v = [3 \ -1 \ 2] \ , \ u = [6 \ 4 \ -3]$$

By hand (pencil and paper) write what will be displayed if the following commands are executed by MATLAB. Check your answers by executing the commands with MATLAB.

(a) $v .* u$

(b) $v .^2 u$

(c) $v * u'$

Solution

```
>> v = [3 -1 2];
>> u = [6 4 -3];
>> v .* u
ans =
    18    -4    -6
>> v .^2 u
ans =
  729.0000    1.0000    0.1250
>> v * u'
ans =
    8
```

13. Define the vector $v = [1 \ 3 \ 5 \ 7]$. Then use the vector in a mathematical expression to create the following vectors:

(a) $a = [3 \ 9 \ 15 \ 21]$

(b) $b = [1 \ 9 \ 25 \ 49]$

(c) $c = [1 \ 1 \ 1 \ 1]$

(d) $d = [6 \ 6 \ 6 \ 6]$

Solution

```
>> v = [1 3 5 7];
>> a = 3 * v
a =
     3     9    15    21
>> b = v .^2
b =
     1     9    25    49
>> c = v ./ v
c =
     1     1     1     1
>> d = 6 * v ./ v
d =
     6     6     6     6
```

Matlab Chapter 3

RM Cervero



Matlab Chapter 3:

Diagnostic Radiology Physics with MATLAB® Johan Helmenkamp, Robert Bujila, Gavin Poludniowski, 2020-11-23 Imaging modalities in radiology produce ever increasing amounts of data which need to be displayed optimized analyzed and archived a big data as well as an image processing problem Computer programming skills are rarely emphasized during the education and training of medical physicists meaning that many individuals enter the workplace without the ability to efficiently solve many real world clinical problems This book provides a foundation for the teaching and learning of programming for medical physicists and other professions in the field of Radiology and offers valuable content for novices and more experienced readers alike It focuses on providing readers with practical skills on how to implement MATLAB as an everyday tool rather than on solving academic and abstract physics problems Further it recognizes that MATLAB is only one tool in a medical physicist s toolkit and shows how it can be used as the glue to integrate other software and processes together Yet with great power comes great responsibility The pitfalls to deploying your own software in a clinical environment are also clearly explained This book is an ideal companion for all medical physicists and medical professionals looking to learn how to utilize MATLAB in their work Features Encompasses a wide range of medical physics applications in diagnostic and interventional radiology Advances the skill of the reader by taking them through real world practical examples and solutions with access to an online resource of example code The diverse examples of varying difficulty make the book suitable for readers from a variety of backgrounds and with different levels of programming experience

Randomness and Elements of Decision Theory Applied to Signals Monica Borda, Romulus Terebes, Raul Malutan, Ioana Ilea, Mihaela Cislariu, Andreia Miclea, Stefania Barburiceanu, 2021-12-10 This book offers an overview on the main modern important topics in random variables random processes and decision theory for solving real world problems After an introduction to concepts of statistics and signals the book introduces many essential applications to signal processing like denoising texture classification histogram equalization deep learning or feature extraction The book uses MATLAB algorithms to demonstrate the implementation of the theory to real systems This makes the contents of the book relevant to students and professionals who need a quick introduction but practical introduction how to deal with random signals and processes

Discrete-time Signal Processing Darrell Williamson, 2012-12-06 The topics of control engineering and signal processing continue to flourish and develop In common with general scientific investigation new ideas concepts and interpretations emerge quite spontaneously and these are then discussed used discarded or subsumed into the prevailing subject paradigm Sometimes these innovative concepts coalesce into a new sub discipline within the broad subject tapestry of control and signal processing This preliminary battle between old and new usually takes place at conferences through the internet and in the journals of the discipline After a little more maturity has been acquired by the new concepts then archival publication as a scientific or engineering monograph may occur The applications of signal processing techniques have grown and grown They now cover the wide range from the

statistical properties of signals and data through to the hardware problems of communications in all its diverse aspects Supporting this range of applications is a body of theory analysis and techniques which is equally broad Darrell Williamson has faced the difficult task of organising this material by adopting an algebraic approach This uses general mathematical and systems ideas and results to form a firm foundation for the discrete signal processing paradigm Although this may require some extra concentration and involvement by the student or researcher the rewards are a clarity of presentation and deeper insight into the power of individual results An additional benefit is that the algebraic language used is the natural language of computing tools like MATLAB and its simulation facility SIMULINK

Applications Interface Programming Using Multiple Languages Ying Bai, 2003 Annotation This book provides a detailed description about the practical considerations in multiple languages programming as well as the interfaces among different languages in the Windows environment

Authentic examples and detailed explanations are combined together in this book to provide the readers a clear picture as how to handle the multiple languages programming in Windows

Nature-Inspired Algorithms Krishn Kumar Mishra, 2022-10-17 This comprehensive reference text discusses nature inspired algorithms and their applications It presents the methodology to write new algorithms with the help of MATLAB programs and instructions for better understanding of concepts It covers well known algorithms including evolutionary algorithms genetic algorithm particle Swarm optimization and differential evolution and recent approaches including gray wolf optimization A separate chapter discusses test case generation using techniques such as particle swarm optimization genetic algorithm and differential evolution algorithm The book Discusses in detail various nature inspired algorithms and their applications Provides MATLAB programs for the corresponding algorithm Presents methodology to write new algorithms Examines well known algorithms like the genetic algorithm particle swarm optimization and differential evolution and recent approaches like gray wolf optimization Provides conceptual linking of algorithms with theoretical concepts The text will be useful for graduate students in the field of electrical engineering electronics engineering computer science and engineering Discussing nature inspired algorithms and their applications in a single volume this text will be useful as a reference text for graduate students in the field of electrical engineering electronics engineering computer science and engineering It discusses important algorithms including deterministic algorithms randomized algorithms evolutionary algorithms particle swarm optimization big bang big crunch BB BC algorithm genetic algorithm and grey wolf optimization algorithm

System Dynamics Karl A. Seeler, 2014-08-26 This unique textbook takes the student from the initial steps in modeling a dynamic system through development of the mathematical models needed for feedback control The generously illustrated student friendly text focuses on fundamental theoretical development rather than the application of commercial software Practical details of machine design are included to motivate the non mathematically inclined student

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Systems Naomi Ehrich Leonard, William S. Levine, 1992 *The Student Edition of MATLAB* Duane C. Hanselman, MathWorks, Inc, 1995 This text examines the Version 4 of MATLAB software for numerical computations and problem solving which incorporates changes integrated into the MATLAB professional release 4 including new 3 D colour scientific visualization new object oriented graphics and graphical user interface tools **Process Dynamics and Control** Dale E. Seborg, Thomas F. Edgar, Duncan A. Mellichamp, Francis J. Doyle, III, 2016-11-16 The new 4th edition of Seborg s Process Dynamics and Control provides full topical coverage for process control courses in the chemical engineering curriculum emphasizing how process control and its related fields of process modeling and optimization are essential to the development of high value products A principal objective of this new edition is to describe modern techniques for control processes with an emphasis on complex systems necessary to the development design and operation of modern processing plants Control process instructors can cover the basic material while also having the flexibility to include advanced topics

Introduction to Electric Circuits Richard C. Dorf, James A. Svoboda, 2006-01-09 Aimed at those studying electrical and computer engineering this text encourages students to learn the fundamentals of circuit theory which is necessary for the complete study of electrical engineering *Antenna Engineering Using Physical Optics* Leo Diaz, Thomas A. Milligan, 1996 Spend less time setting up complex antenna design problems and improve the accuracy of your results with this practical new book and software package It shows you how to combine physical optics modeling techniques with the free space dyadic Green s function to quickly and easily calculate antenna patterns and diffraction from nearby objects letting your PC do the specialized math for you *An Introduction to Stochastic Processes with Applications to Biology* Linda J. S. Allen, 2003 Plenty of examples diagrams and figures take readers step by step through well known classical biological models to ensure complete understanding of stochastic formulation Probability Markov Chains discrete time branching processes population genetics and birth and death chains For biologists and other professionals who want a comprehensive easy to follow

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