

3. For the function $y = (x + x\sqrt{x+3})(1+2x^2) - x^3$, calculate the value of y for the following values of x using element-by-element operations: -2, -1.5, -1, -0.5, 0, 0.5, 1, 1.5, 2.

Solution

```
>> x=-2:0.5:2
x =
    -2.0000    -1.5000    -1.0000    -0.5000         0
     0.5000     1.0000     1.5000     2.0000
>> y=(x+x.*sqrt(x+3)).*(1+2*x.^2)-x.^3
y =
   -28.0000   -14.9791    -6.2426    -1.8109         0
     2.0281     8.0000    22.3759    50.2492
```

4. For the function $y = \frac{4\sin x + 6}{4\cos^2 x + \sin x}$, calculate the value of y for the following values of x using element-by-element operations: 15°, 25°, 35°, 45°, 55°, 65°.

Solution

```
>> x=15:10:65
x =
    15    25    35    45    55    65
>> y=(4*sind(x)+6)./(cosd(x).^2+sind(x)).^2
y =
    4.9528    4.9694    5.3546    6.0589    7.0372
    8.1775
```

5. The radius, r , of a sphere can be calculated from its volume, V , by:

$$r = \sqrt[3]{\frac{3V}{4\pi}}$$

The surface area of a sphere, S , is given by:

$$S = 4\pi r^2$$

Determine the radius and surface area of spheres with volumes of 4,000, 3,500, 3,000, 2,500, 2,000, 1,500 and 1,000 in³. Display the results in a three-column table where the values of r , V , and S are displayed in the first, second, and third columns, respectively. The values of r and S that are displayed in the table should be rounded to the nearest tenth of an inch.

Solution

Matlab Chapter 3

**Thad B. Welch, Cameron H.G.
Wright, Michael G. Morrow**



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A Guide to MATLAB Brian R. Hunt, Ronald L. Lipsman, Jonathan M. Rosenberg, Kevin R. Coombes, John E. Osborn, Garrett J. Stuck, 2006-06-08 This is a short focused introduction to MATLAB a comprehensive software system for mathematical and technical computing It contains concise explanations of essential MATLAB commands as well as easily understood instructions for using MATLAB s programming features graphical capabilities simulation models and rich desktop interface Written for MATLAB 7 it can also be used with earlier and later versions of MATLAB This book teaches how to graph functions solve equations manipulate images and much more It contains explicit instructions for using MATLAB s companion software Simulink which allows graphical models to be built for dynamical systems MATLAB s new publish feature is discussed which allows mathematical computations to be combined with text and graphics to produce polished integrated interactive documents For the beginner it explains everything needed to start using MATLAB while experienced users making the switch to MATLAB 7 from an earlier version will also find much useful information here Real-Time Digital Signal Processing from MATLAB to C with the TMS320C6x DSK Thad B. Welch, Cameron H.G. Wright, Michael G. Morrow, 2005-12-21 From personal music players to anti lock brakes and advanced digital flight controllers the demand for real time digital signal processing DSP continues to grow Mastering real time DSP is one of the most challenging and time consuming pursuits in the field exacerbated by the lack of a resource that solidly bridges the gap between theory and practice Recognizing that there is a better way forward accomplished experts Welch Wright and Morrow offer Real Time Digital Signal Processing from MATLAB to C with the TMS320C6x DSK This book collects all of the necessary tools in a single field tested source of unrivaled authority The authors seamlessly integrate theory with easy to use inexpensive hardware and software tools in an approachable and hands on manner Using abundant examples and exercises in a step by step approach they work from familiar interfaces such as MATLAB to running algorithms in real time on industry standard DSP hardware For each concept the book uses a four step methodology a brief review of relevant theory demonstration of the concept in winDSK6 an easy to use software tool explanation and demonstration of MATLAB techniques for implementation and explanation of the necessary C code to implement the algorithms in real time Covering a broad spectrum of topics in a hands on concise and approachable way Real Time Digital Signal Processing from MATLAB to C with the TMS320C6x DSK paves the way toward mastery of real time DSP Essential source code is available for download Multivariable Calculus with MATLAB® Ronald L. Lipsman, Jonathan M. Rosenberg, 2017-12-06 This comprehensive treatment of multivariable calculus focuses on the numerous tools that MATLAB brings to the subject as it presents introductions to geometry mathematical physics and kinematics Covering simple calculations with MATLAB relevant plots integration and optimization the numerous problem sets encourage practice with newly learned skills that cultivate the reader s understanding of the material Significant examples illustrate each topic and fundamental physical applications such as Kepler s Law

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Table of Contents Matlab Chapter 3

1. Understanding the eBook Matlab Chapter 3
 - The Rise of Digital Reading Matlab Chapter 3
 - Advantages of eBooks Over Traditional Books
2. Identifying Matlab Chapter 3
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Matlab Chapter 3
 - User-Friendly Interface
4. Exploring eBook Recommendations from Matlab Chapter 3
 - Personalized Recommendations
 - Matlab Chapter 3 User Reviews and Ratings

- Matlab Chapter 3 and Bestseller Lists
- 5. Accessing Matlab Chapter 3 Free and Paid eBooks
 - Matlab Chapter 3 Public Domain eBooks
 - Matlab Chapter 3 eBook Subscription Services
 - Matlab Chapter 3 Budget-Friendly Options
- 6. Navigating Matlab Chapter 3 eBook Formats
 - ePub, PDF, MOBI, and More
 - Matlab Chapter 3 Compatibility with Devices
 - Matlab Chapter 3 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Matlab Chapter 3
 - Highlighting and Note-Taking Matlab Chapter 3
 - Interactive Elements Matlab Chapter 3
- 8. Staying Engaged with Matlab Chapter 3
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Matlab Chapter 3
- 9. Balancing eBooks and Physical Books Matlab Chapter 3
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Matlab Chapter 3
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Matlab Chapter 3
 - Setting Reading Goals Matlab Chapter 3
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Matlab Chapter 3
 - Fact-Checking eBook Content of Matlab Chapter 3
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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