

Solution Manual for Signals and Systems Analysis Using Transform Methods and MATLAB 3rd Edition Roberts 0078028124 9780078028120

Chapter 2 - Mathematical Description of Continuous-Time Signals

Solutions

Exercises With Answers in Text

Signal Functions

1. If $g(t) = 7e^{-2t+3}$ write out and simplify

(a) $g(3) = 7e^{-3} = 8.6387 \times 10^{-2}$

(b) $g(2-t) = 7e^{-2(2-t)+3} = 7e^{-1+2t}$

(c) $g(t/10+4) = 7e^{-2(t/10+4)+3}$

(d) $g(jt) = 7e^{-2jt+3}$

(e) $\frac{g(jt) + g(-jt)}{2} = 7e^{-3} \frac{e^{-j2t} + e^{j2t}}{2} = 7e^{-3} \cos(2t) = 0.3485 \cos(2t)$

(f) $\frac{g\left(\frac{t-3}{2}\right) + g\left(\frac{-t-3}{2}\right)}{2} = 7 \frac{e^{-t+3} + e^{-t+3}}{2} = 7 \cos(t)$

2. If $g(x) = x^2 - 4x + 4$ write out and simplify

(a) $g(z) = z^2 - 4z + 4$

(b) $g(u+v) = (u+v)^2 - 4(u+v) + 4 = u^2 + v^2 + 2uv - 4u - 4v + 4$

Solutions 2-1

Signals And Systems Using Matlab Solution

Gerard Blanchet, Maurice Charbit



Signals And Systems Using Matlab Solution :

This book delves into Signals And Systems Using Matlab Solution . Signals And Systems Using Matlab Solution is a vital topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Signals And Systems Using Matlab Solution , encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Signals And Systems Using Matlab Solution
- Chapter 2: Essential Elements of Signals And Systems Using Matlab Solution
- Chapter 3: Signals And Systems Using Matlab Solution in Everyday Life
- Chapter 4: Signals And Systems Using Matlab Solution in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Signals And Systems Using Matlab Solution . The first chapter will explore what Signals And Systems Using Matlab Solution is, why Signals And Systems Using Matlab Solution is vital, and how to effectively learn about Signals And Systems Using Matlab Solution .

3. In chapter 2, this book will delve into the foundational concepts of Signals And Systems Using Matlab Solution . This chapter will elucidate the essential principles that must be understood to grasp Signals And Systems Using Matlab Solution in its entirety.

4. In chapter 3, the author will examine the practical applications of Signals And Systems Using Matlab Solution in daily life. This chapter will showcase real-world examples of how Signals And Systems Using Matlab Solution can be effectively utilized in everyday scenarios.

5. In chapter 4, the author will scrutinize the relevance of Signals And Systems Using Matlab Solution in specific contexts. The fourth chapter will explore how Signals And Systems Using Matlab Solution is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, this book will draw a conclusion about Signals And Systems Using Matlab Solution . The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Signals And Systems Using Matlab Solution .

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