

# Solution Manual for Signals and Systems, 3rd Edition

## 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)  $g(3) = 7e^{-6} = 8.6387 \times 10^{-4}$

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

(c)  $g(t/10+4) = 7e^{-(t/5+16)}$

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

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

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

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

(c)  $g(e^t) = (e^t)^2 - 4e^t + 4 = e^{2t} - 4e^t + 4 = (e^t - 2)^2$

(d)  $g(g(t)) = g(t^2 - 4t + 4) = (t^2 - 4t + 4)^2 - 4(t^2 - 4t + 4) + 4$

$$g(g(t)) = t^4 - 8t^3 + 20t^2 - 16t + 4$$

(e)  $g(2) = 4 - 8 + 4 = 0$

# Solution Manual To Signals Systems

**Leslie Balmer**



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**Solutions Manual for Signals and Systems Primer with Matlab** Alexander D Poularikas, Poularikas Alexander D Staff, 2007-01-01     Signals and Linear Systems Robert A. Gabel, Richard A. Roberts, 1987-03     **Signals, Systems, and Transforms** Leland B. Jackson, 1991-01     **Solutions Manual** Naveed Akhtar Malik, Syed Hamid Nawab, 1983     *Solutions Manual for Signals and Systems* Michael D. Adams, 2022     *Signals, Systems and Communication. Solutions Manual, Etc B. P. Lathi*, 1966     **Solutions Manual for Signal Analysis in Linear Systems** Ronald C. Houts, Oktay Alkin, 1995-06

**Solution Manual for Linear Systems and Signals** Bhagwandas Pannalal Lathi, 1992     Signals, Systems and Signal Processing P. P. Vaidyanathan, 2024-06-13 An innovative introduction to the foundations of signals and systems smoothing the transition towards study of digital signal processing     *Solutions Manual for Continuous and Discrete Signal and System Analysis* Clare D. McGillem, George R. Cooper, 1995-06     Solution Manual for Signal Processing and Linear Systems Bhagwandas P. Lathi, 1998-12 This is a solutions manual to accompany B P Lathi s Signal Processing and Linear Systems

Instructor's Solutions Manual for Chen's Signals and Systems Chi-Tsong Chen, Professor Department of Electrical Engineering Chi-Tsong Chen, 2004-03 Instructor s Solutions Manual for Chen s Signals and Systems third edition is a supplementary material that contains solutions to problems featured in the main text It is available free of charge to adopting professors     Solutions Manual Naveed Malik, 1983     **Traffic Signalization Systems** Public Technology, inc, 1976

Instructor's Solutions Manual for Linear Systems and Signals Bhagwandas Pannalal Lathi, Roger A. Green, 2004-07 This supplement contains solutions to all end of chapter problems plus MATLAB problems     **Signals and Systems** Leslie Balmer, 1991 Covering signals and systems in a step by step integrated manner this work presents introductory concepts discusses system response to a sinusoidal input and includes coverage of the Fourier series and Fourier transform as well as the laplace transform     *Solutions Manual, Signal and Linear System Analysis* Gordon E. Carlson, 1992     **Railway Signaling and Communications** , 1960     **Solutions manual** Edward W. Kamen, Bonnie S. Heck, 1997     **Fourier and Laplace Transforms** , 2003-08-07 This textbook presents in a unified manner the fundamentals of both continuous and discrete versions of the Fourier and Laplace transforms These transforms play an important role in the analysis of all kinds of physical phenomena As a link between the various applications of these transforms the authors use the theory of signals and systems as well as the theory of ordinary and partial differential equations The book is divided into four major parts periodic functions and Fourier series non periodic functions and the Fourier integral switched on signals and the Laplace transform and finally the discrete versions of these transforms in particular the Discrete Fourier Transform together with its fast implementation and the z transform This textbook is designed for self study It includes many worked examples together with more than 120 exercises and will be of great value to undergraduates and graduate students in applied mathematics electrical engineering physics and computer science

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