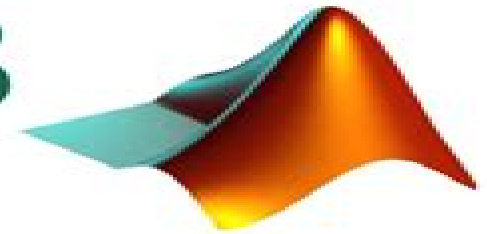


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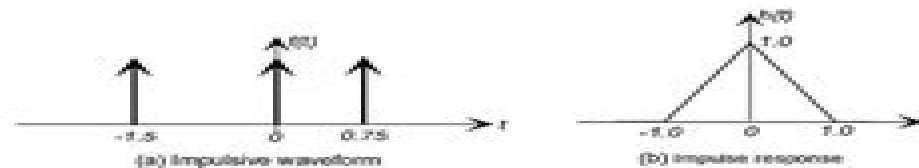
Homework Helper

Problem



Problem 1:

- (a) Plot the result of convolving a one-dimensional function consisting of three impulses with a triangular function as shown below:



- (b) Plot the result of convolving a one-dimensional function consisting of a rectangular function with the same triangular function used in part(a), as shown below:



- (c) Plot the result of convolving a pair of identical even "top-hat" (pulse) functions: $f(t) = 1$ for $|t| < T/2$ and $f(t) = 0$ otherwise. Use your result show that the Fourier transform of a triangular pulse (such as used in parts (a) and (b)) is of the form $(\sin(x)/x)^2$.

Problem 2: Show that when two gaussian functions

$$f_1(x) = e^{-ax^2}$$

$$f_2(x) = e^{-bx^2}$$

are convolved, the result is another gaussian function.

Hint: Complete the square in the exponent, change the variable of integration, and recognize that

$$\int_{-\infty}^{\infty} e^{-x^2} dx = \sqrt{\pi}$$

Matlab Homework Solutions

Tobias Bleicker



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MATLAB Primer Timothy A. Davis, 2010-08-18 Highlighting the new aspects of MATLAB 7 10 and expanding on many existing features this eighth edition continues to offer a hands on step by step introduction to using the powerful tools of MATLAB It includes a new chapter on object oriented programming a new discussion of the MATLAB File Exchange window major changes to the MATLAB Editor and an explanation of more powerful Help tools It also presents a synopsis of the most frequently used functions operators and special characters providing quick and easy access to frequently used information M files and MEX files for large examples are available at www.crcpress.com The Analysis and Design of Linear Circuits Roland E. Thomas, Albert J. Rosa, Gregory J. Toussaint, 2016-01-05 The Analysis and Design of Linear Circuits 8th Edition provides an introduction to the analysis design and evaluation of electric circuits focusing on developing the learners design intuition The text emphasizes the use of computers to assist in design and evaluation Early introduction to circuit design motivates the student to create circuit solutions and optimize designs based on real world constraints This text is an unbound three hole punched version Control Systems Engineering Norman S. Nise, 2020-06-23 Highly regarded for its accessibility and focus on practical applications Control Systems Engineering offers students a comprehensive introduction to the design and analysis of feedback systems that support modern technology Going beyond theory and abstract mathematics to translate key concepts into physical control systems design this text presents real world case studies challenging chapter questions and detailed explanations with an emphasis on computer aided design Abundant illustrations facilitate comprehension with over 800 photos diagrams graphs and tables designed to help students visualize complex concepts Multiple experiment formats demonstrate essential principles through hypothetical scenarios simulations and interactive virtual models while Cyber Exploration Laboratory Experiments allow students to interface with actual hardware through National Instruments myDAQ for real world systems testing This emphasis on practical applications has made it the most widely adopted text for core courses in mechanical electrical aerospace biomedical and chemical engineering Now in its eighth edition this top selling text continues to offer in depth exploration of up to date engineering practices *Engineering Mechanics* A. Bedford, Wallace L. Fowler, 2005 While covering the basic principles of mechanics in an example driven format this innovative book emphasizes critical thinking by presenting the reader with engineering situations Compelling photorealistic art and a robust photograph program helps readers to connect visually to the topics discussed Features strong coverage of FBDs and important ABET topics Chapter topics include Vectors Forces Systems of Forces and Moments Objects in Equilibrium Structures In Equilibrium Centroids and Centers of Mass Moments of Inertia Friction Internal Forces and Moments Virtual Work and Potential Energy For professionals in mechanical civil aeronautical or engineering mechanics fields Operations and Production Systems with Multiple Objectives Behnam Malakooti, 2014-02-03 The first comprehensive book to uniquely combine the three fields of systems engineering operations production systems and multiple

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