

## CHAPTER 2

# Discrete-Time Signals and Systems

### Tutorial Problems

1. (a) MATLAB script:

```
% P0201a: Generate and plot unit sample
close all; clc
n = -20:40; % specify support of signal
deltan = zeros(1,length(n)); % define signal
deltan(n==0)=1;
% Plot:
hf = figure('P0201a','small');
stem(n,deltan,'fill')
axis([min(n)-1,max(n)+1,min(deltan)-0.2,max(deltan)+0.2])
xlabel('n','fontsize',LFS); ylabel('\delta[n]','fontsize',LFS);
title('Unit Sample \delta[n]','fontsize',TFS)
```

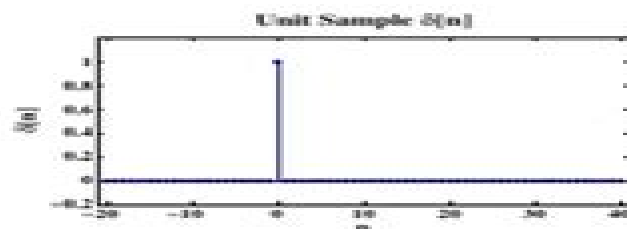


FIGURE 2.1: unit sample  $\delta[n]$ .

# Applied Digital Signal Solution Manual

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Probabilistic Methods in Applied Physics Paul Kree, 1995-10-09 This book is an outcome of a European collaboration on applications of stochastic methods to problems of science and engineering The articles present methods allowing concrete calculations without neglecting the mathematical foundations They address physicists and engineers interested in scientific computation and simulation techniques In particular the volume covers simulation stability theory Lyapounov exponents stochastic modelling statistics on trajectories parametric stochastic control Fokker Planck equations and Wiener filtering  
**Applied Simulation & Modelling** International Association of Science and Technology for Development, 1989  
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many times throughout the story and the fear along with the suspicion make the characters in the story act strangely  
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