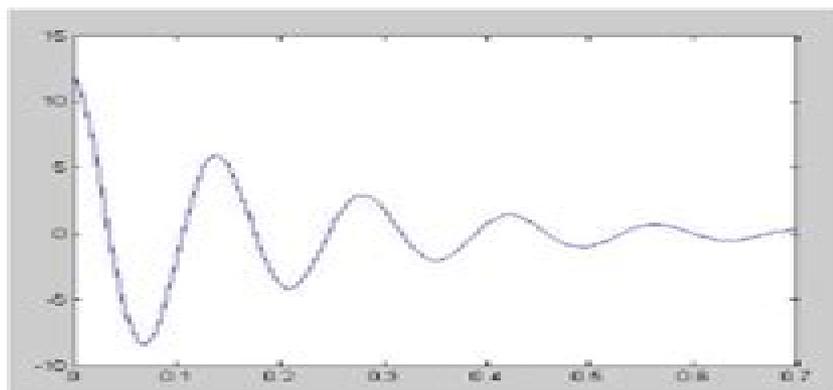


## CHAPTER 2

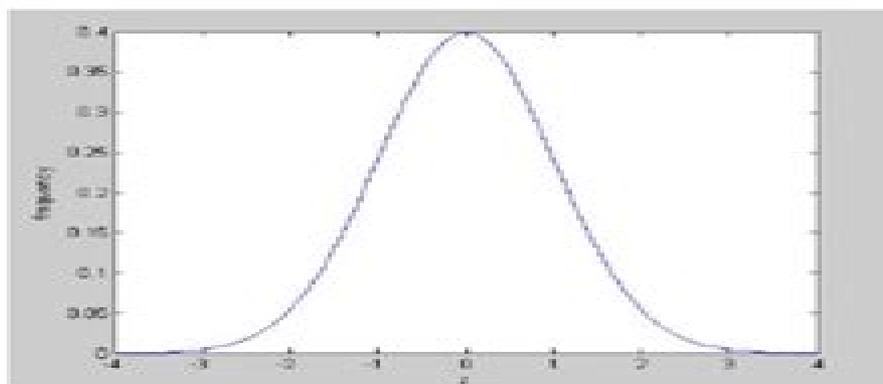
### 2.1

```
>> q0 = 12;R = 50;L = 5;C = 1e-4;  
>> n = linspace(0, .7);  
>> q = q0*exp(-R*t/(2*L)) .* cos(sqrt(1/(L*C) - (R/(2*L))^2)*t);  
>> plot(t,q)
```



### 2.2

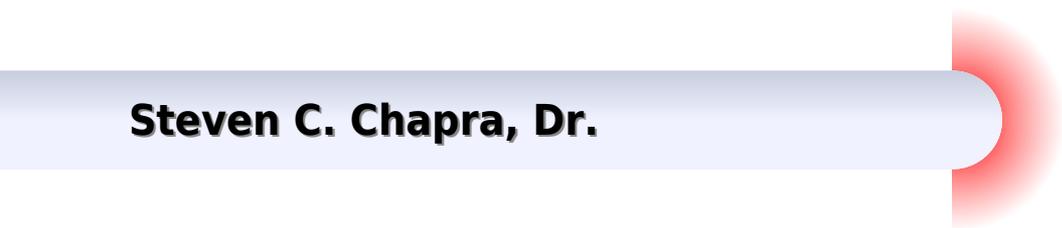
```
>> z = linspace(-4,4);  
>> f = 1/sqrt(2*pi)*exp(-z.^2/2);  
>> plot(z,f)  
>> xlabel('z')  
>> ylabel('frequency')
```



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**Steven C. Chapra, Dr.**



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