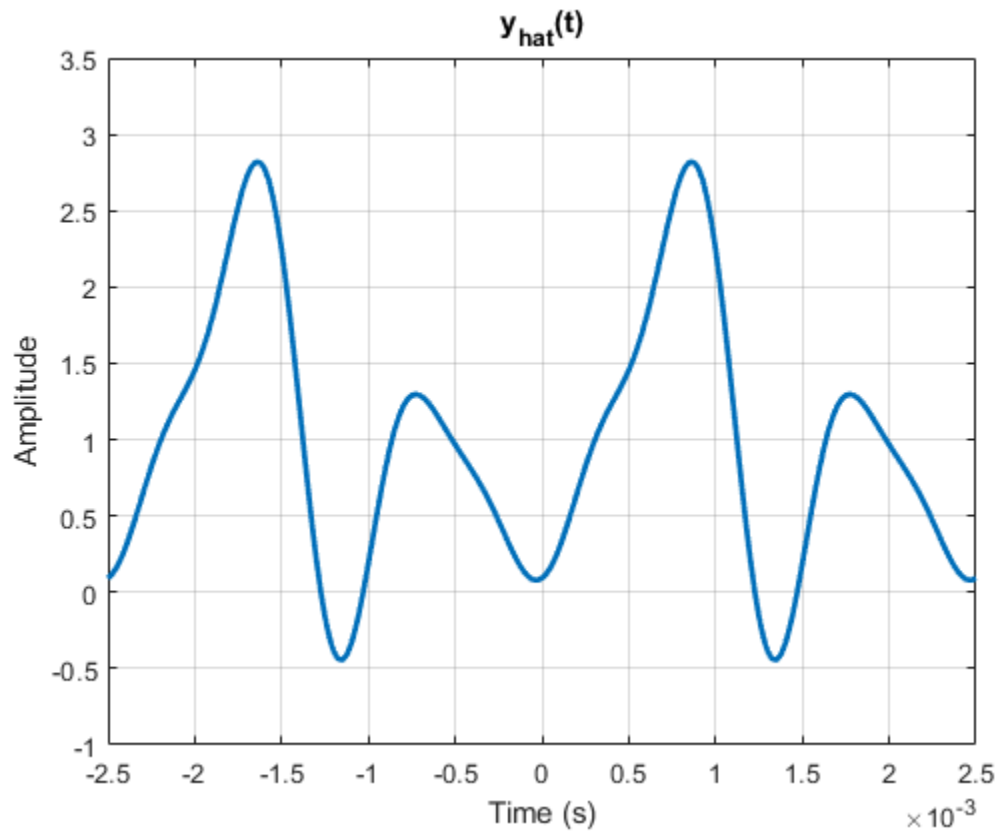


---

```
Ck = [0.6513, 0.8942, 0.4322, 0.2387, 0.1312, 0.2314, 0.2226, 0.1337,  
      0.0658, 0.1079];  
Ok = [-1.9174, 2.6620, -0.6346, 2.8995, 1.3452, -1.6801, 1.6153,  
      -1.5630, 2.7450, 0.4671];  
  
K = 4;  
Y0 = 0.99;  
c3 = 16e3;  
Tx=40; Ty=40/c3;  
wy = 2*pi/Ty;  
ty = -1*Ty:(Ty/100):1*Ty;  
yhat = zeros(size(ty));  
  
for k = 0:K  
    if k==0  
        yhat = yhat + Y0;  
    else  
        yhat = yhat + Ck(k)*cos(k*wy*ty + Ok(k));  
    end  
end  
  
plot(ty, real(yhat), 'LineWidth', 2);  
xlabel('Time (s)'), ylabel('Amplitude'), title('y_{hat}(t)');  
grid on;  
ylim([-1,3.5]);
```



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