

```
% (chap5_ideal_lowpass_impulse_resp.m)
% Chapter 5 Ideal Lowpass filter h[n]
B = 0.5; % Filter Bandwidth
n = -31:1:31;
h = B/pi*sinc(B*n/pi);
stem(n,h,'r.'),axis([-32 32 -0.05 0.2]),
ylabel('h[n]','fontsize',14,'fontname','times'),
xlabel('n','fontsize',14,'fontname','times roman'),
title('DTFT Ideal Lowpass Unit-pulse Response',...
      'fontsize',16,'fontname','times'),
text(-20,0.18,'h[n] = (B/\pi) sinc(B*n/\pi), B=0.5',...
     'fontsize',16,'fontname','times'),
set(findobj('type','line'),'linewidth',1.5)
set(findobj('type','line'),'markersize',18)
set(findobj('type','axes'),'linewidth',2)
```

