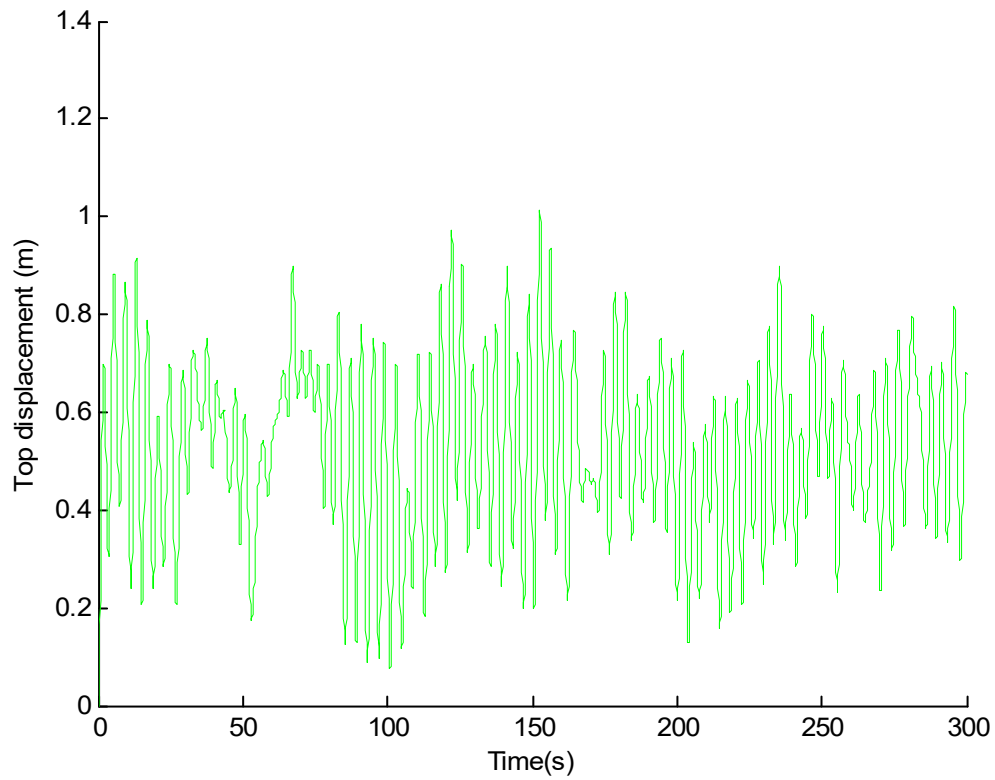


FIGURE 1



```
figure(2)
T=300;% TEMPS TOTAL DU SIGNAL
%N=3000; %%numberofpoints
N=3000;
%
t=T*[0:N-1]/N; %%definetime

s1=subs(vt,L)*depl(1,:);
f=s1-mean(s1); %%definefunction
p=abs(fft(f))/(N/2); %%absolutevalueofthfft
p=p(1:N/2).^2
%%findthecorrespondingfrequencyinHz
```

```
freq=[0:N/2-1]/T;  
semilogy(freq,p,'r');  
xlabel('Frequency(Hz)') ;ylabel('Top displacement PSD') ;  
  
hold on
```

FIGURE 2

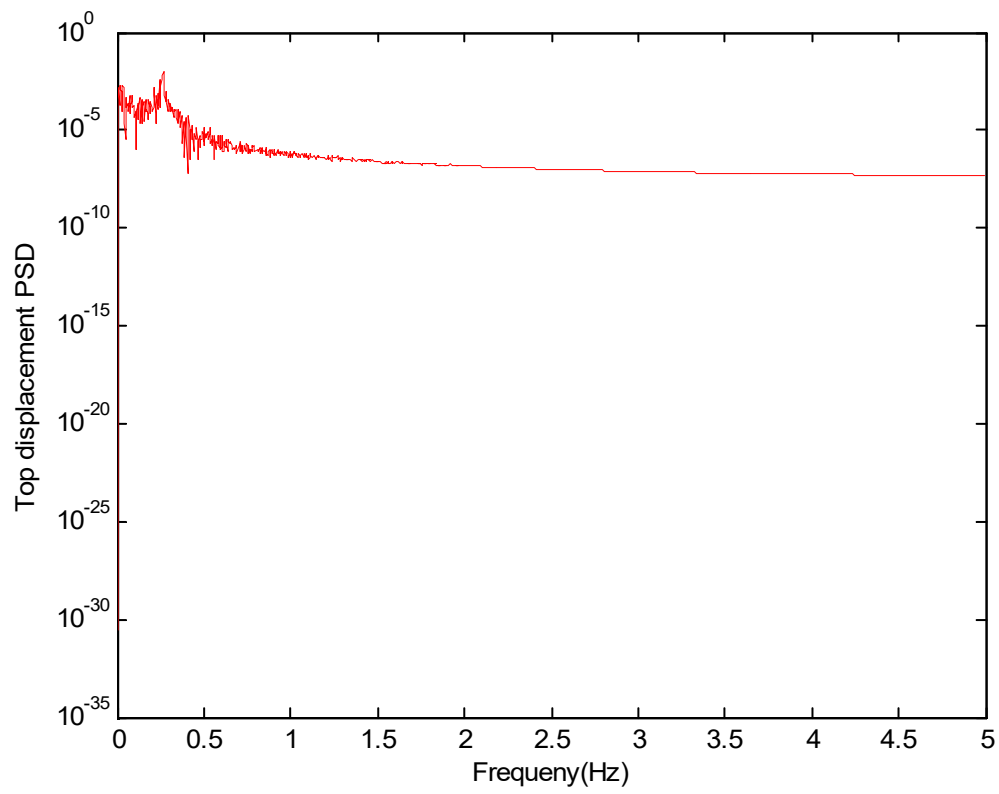


FIGURE 3

