PSD ILLUSTRATION CODING

a = 0 : 0.001 : 1;

t = 0 : 0.001 : 1;

x = 0 : 0.001 : 1;

k = (((a.\*a).\*t));

v = (((a.\*a).\*t)/4);

m = (x.\*t);

p = (pi.\*(x.\*t));

s = k.\*(sinc(m).\*sinc(m)) ; %Polar

u = v.\*(sinc(m).\*sinc(m)) ; %Unipolar

g = k.\*(sinc(m/2).\*sinc(m/2)).\*(sinc(p/2).\*sinc(p/2)); % Manchester

h = k.\*(sinc(m).\*sinc(m)).\*(sinc(p).\*sinc(p)); %Bipolar

figure;

plot(m,s);

hold on;

plot(m,u,'r');

plot(m,g,'g');

plot(m,h,'b');

hold off;

