
DSP Homework 6

```
clear;

K = 110;
z = 0;

matArrayA(4,K,3) = 0;
matArrayB(4,K,3) = 0;

for fp = [250 500 1000 2000]

    z = z + 1; % Iteration counter
    alphap = 1;
    alphas = 20;
    Fs = 10000;
    omegap1 = fp*2*pi;
    omegap2 = Fs/2*2*pi - omegap1;
    omegapLowProto = 1;
    Omegap1 = omegap1/Fs;
    Omegap2 = omegap2/Fs;
    k = 1:K;

    omegasLowProto =
    omegapLowProto*cosh(acosh(sqrt((10^(alphas/10)-1)/
    (10^(alphap/10)-1)))/K);
    epsilon = 1/sqrt(10^(alphas/10)-1);

    pk = -omegapLowProto*sinh(asinh(1/epsilon)/K)*sin(pi*(2*k-1)/
    (2*K))+...
    1j*omegapLowProto*cosh(asinh(1/epsilon)/K)*cos(pi*(2*k-1)/(2*K));

    pk = omegapLowProto*omegasLowProto./pk;

    zi = 1j*omegasLowProto.*sec(pi*(2*k-1)/(2*K));
    bL = prod(pk./zi);
    aK = 1;
    L = length(zi);
    K = length(pk);

    omegap1Prewarp = tan(Omegap1/2);
    omegap2Prewarp = tan(Omegap2/2);

    c1 = (omegap1Prewarp*omegap2Prewarp-1)/
    (omegap1Prewarp*omegap2Prewarp+1);
    c2 = (omegap2Prewarp-omegap1Prewarp)/
    (omegap1Prewarp*omegap2Prewarp+1);

    for i = 1:L
        Zdig(i,:) = roots([1 2*c1*zi(i)./(zi(i)-c2) (zi(i)+c2)./(
        (zi(i)-c2))]);
```

```

        Zcoef(i,:) = [1 2*c1*zi(i)./(zi(i)-c2) (zi(i)+c2)./(zi(i)-
c2)];
    end
    for i = 1:K
        Pdig(i,:) = roots([1 2*c1*pk(i)./(pk(i)-c2) (pk(i)+c2)./
(pk(i)-c2)]);
        Pcoef(i,:) = [1 2*c1*pk(i)./(pk(i)-c2) (pk(i)+c2)./(pk(i)-
c2)];
    end

    zShape = reshape(Zdig,[L*2, 1]);
    pShape = reshape(Pdig,[K*2, 1]);
    pShape = cplxpair(pShape);
    pDist = abs(pShape(:));
    pSort = [pShape pDist];
    pSort = sortrows(pSort, [2
1], 'descend', 'ComparisonMethod','real');

    pzSort(K,4) = 0;
    b = false;
    r = 1;
    for q = 1:2*K
        b = ~b;
        for i = 1:size(zShape)
            pzDist(i) = sqrt(abs(real(pSort(q,1)) -real(zShape(i))).^2
+ abs(imag(pSort(q,1)) -imag(zShape(i))).^2);
        end
        [M, I] = min(pzDist);
        if(b)
            pzSort(r,[1 3]) = [pSort(q,1) zShape(I)];
        elseif(~b)
            pzSort(r,[2 4]) = [pSort(q,1) zShape(I)];
            r = r + 1;
        end
        zShape(I) = [];
        pzDist(I) = [];
    end

    figure;
    zplane(pzSort(:,[3 4]),pzSort(:,[1 2]));
    hold on
    for i = 1:K
        plot([real(pzSort(i,1)) real(pzSort(i, 2))],, ...
            [imag(pzSort(i,1)) imag(pzSort(i, 2))], 'color', [1/(K
+.1*K)*(i 1/(K+.1*K)*i 1/(K+.1*K)*i)];
        plot([real(pzSort(i,2)) real(pzSort(i, 4))],, ...
            [imag(pzSort(i,2)) imag(pzSort(i, 4))], 'color', [1/(K
+.1*K)*(i 1/(K+.1*K)*i 1/(K+.1*K)*i)];
        plot([real(pzSort(i,1)) real(pzSort(i, 3))],, ...
            [imag(pzSort(i,1)) imag(pzSort(i, 3))], 'color', [1/(K
+.1*K)*(i 1/(K+.1*K)*i 1/(K+.1*K)*i)];
    end

    A(K,3) = 0;

```

```

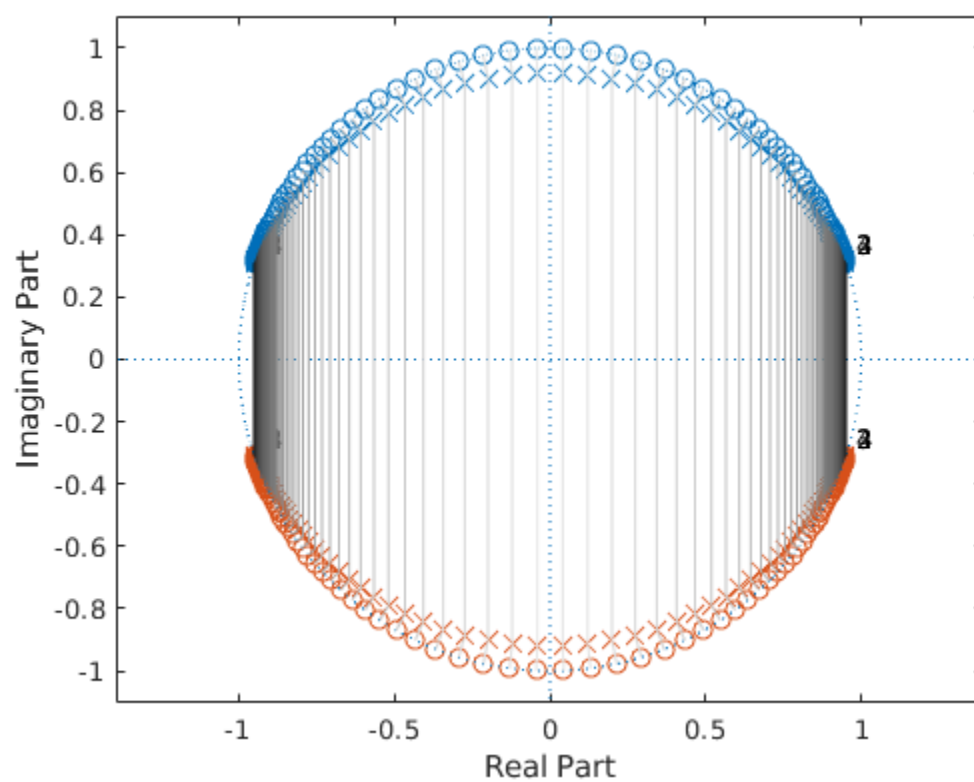
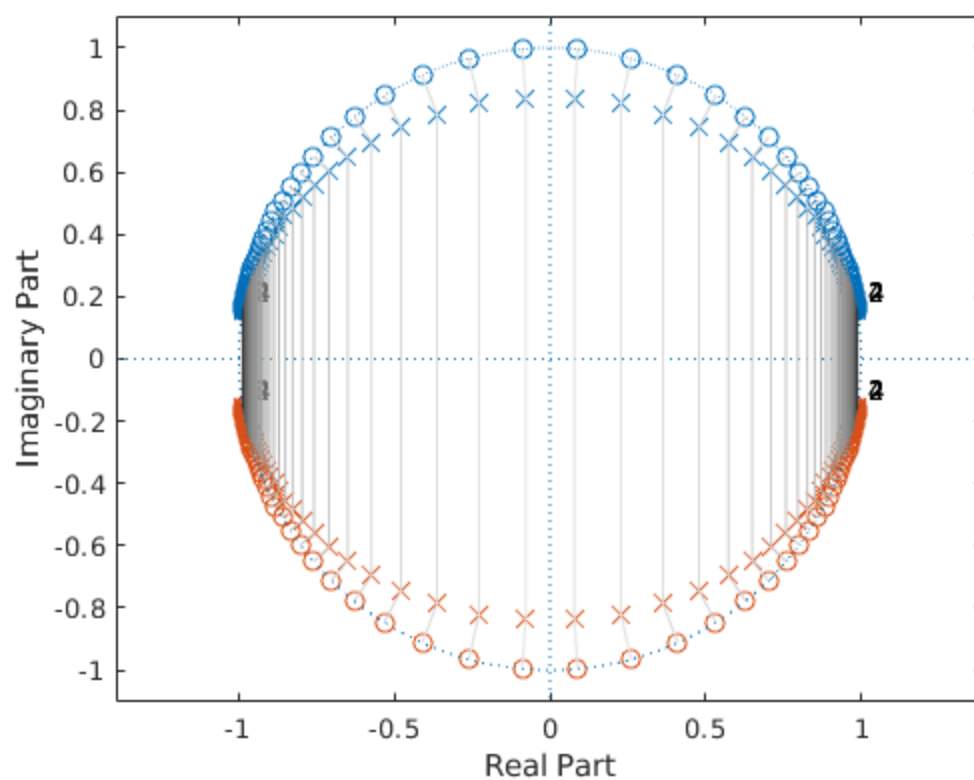
B(K,3) = 0;
for i = 1:K
    A(i,:) = poly(pzSort(i,[1 2]));
    B(i,:) = poly(pzSort(i,[3 4]));
end

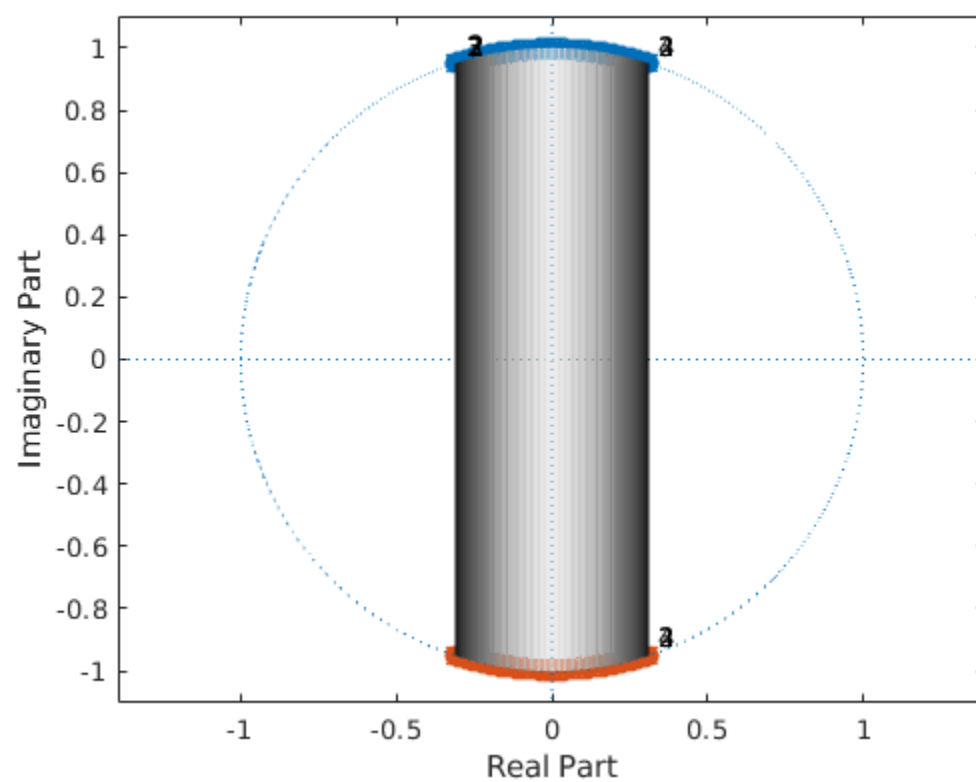
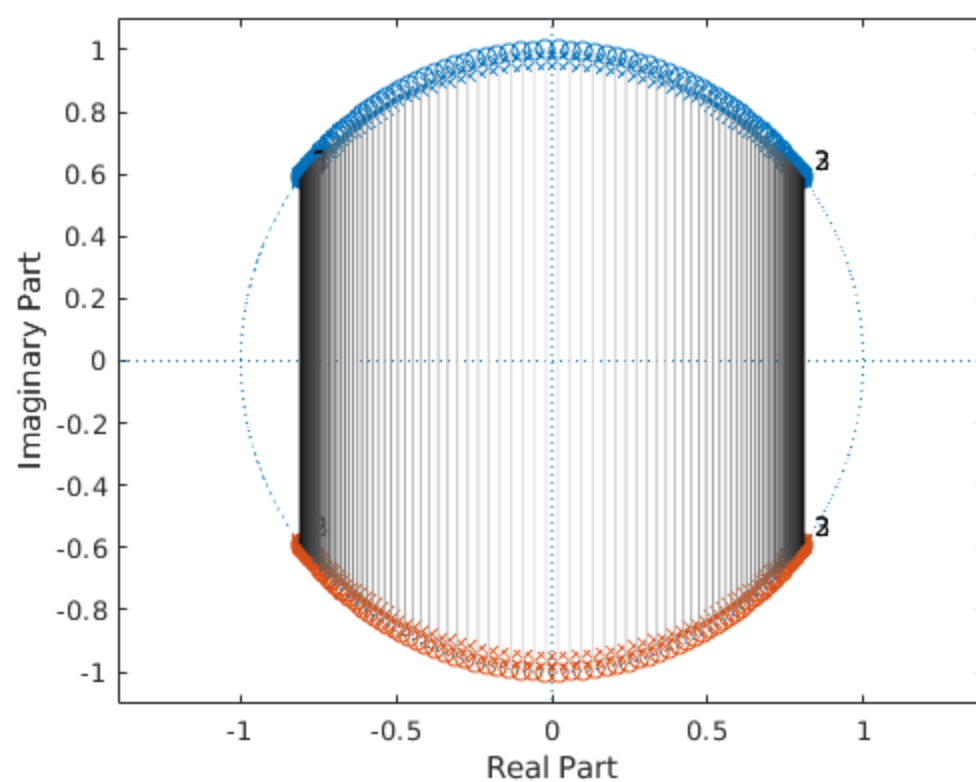
gain = single(nthroot(real((bL/aK*prod(c2-zi)/prod(c2-pk))),K));
B = single(gain*B);
A = single(A);
B = flipud(B);
A = flipud(A);
A(:,1) = [];
B(:,3) = [];

if fp == 250
    fid = fopen('K22_Project_Framework/coef.h','w');
    fprintf(fid,'#define Korder %i \n',uint16(K));
else
    fid = fopen('K22_Project_Framework/coef.h','a');
end
fprintf(fid,'float A%i[Korder][2] = { \n',z);
for Korder = 1:K-1
    fprintf(fid,'{%f, %f} ,\n', A(Korder,1), A(Korder,2));
end
fprintf(fid,'{%f, %f} \n};\n\n', A(K,1), A(K,2));

fprintf(fid,'float B%i[Korder][2] = { \n',z);
for Korder = 1:K-1
    fprintf(fid,'{%f, %f} ,\n', B(Korder,1), B(Korder,2));
end
fprintf(fid,'{%f, %f} \n};\n\n', B(K,1), B(K,2));
fclose(fid);

```





Homework 6 Problem 2 Simulation

```
ADCval = 1;
yn(K+1) = 0;
s(K,2) = 0;

figure;
for t = 0:.0001:.005

    %     Yn(1,1) = 4095;
    %     if(t ~= 0)
    %         Yn(1,1) = 0;
    %     end

    Yn(1,1) = 2048*sin(500*2*pi*t) + 2047;

    for k = 1:K
        Yn(k+1) = B(k,1)*Yn(k) + s(k,1);
        s(k,1) = B(k,2)*Yn(k) - A(k,1)*Yn(k+1) + s(k,2);
        s(k,2) = B(k,1)*Yn(k) - A(k,2)*Yn(k+1);
    end
    valDAC = Yn(K+1);

    stem(t,abs(valDAC));
    hold on
end
hold off

figure;
Hz = @(z) 1;
for k = 1:K
    Hz = @(z) Hz(z).*(B(k,1)*z.^2 + B(k,2).*z + B(k,1)) ...
        ./(1*z.^2 + A(k,1).*z + A(k,2))
end

Omegas = 2*atan(abs(roots([omegasLowProto omegas2Prewarp-
omegas1Prewarp -omegasLowProto*omegas1Prewarp*omegas2Prewarp])))

Omega = 0:.001:pi;

plot(Omega*Fs./(2*pi),abs(Hz(exp(j*Omega))));
title('Frequency Response plot using Coefficient Array');

% Wrong way to implement it. It should be Array(columns, rows,
page)
% but is specified as Array(page, row, column)

OnesArray(length(A(:,1)),1) = 1;
```

```
matArrayA(z, :, :) = [OnesArray(:, 1), A(:, 1), A(:, 2)];
matArrayB(z, :, :) = [B(:, 1), B(:, 2), B(:, 1)];
```

Hz =

function_handle with value:

```
@(z)Hz(z).*(B(k,1)*z.^2+B(k,2).*z+B(k,1))./(1*z.^2+A(k,1).*z
+A(k,2))
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@(z)Hz(z).*(B(k,1)*z.^2+B(k,2).*z+B(k,1))./(1*z.^2+A(k,1).*z+A(k,2))

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```

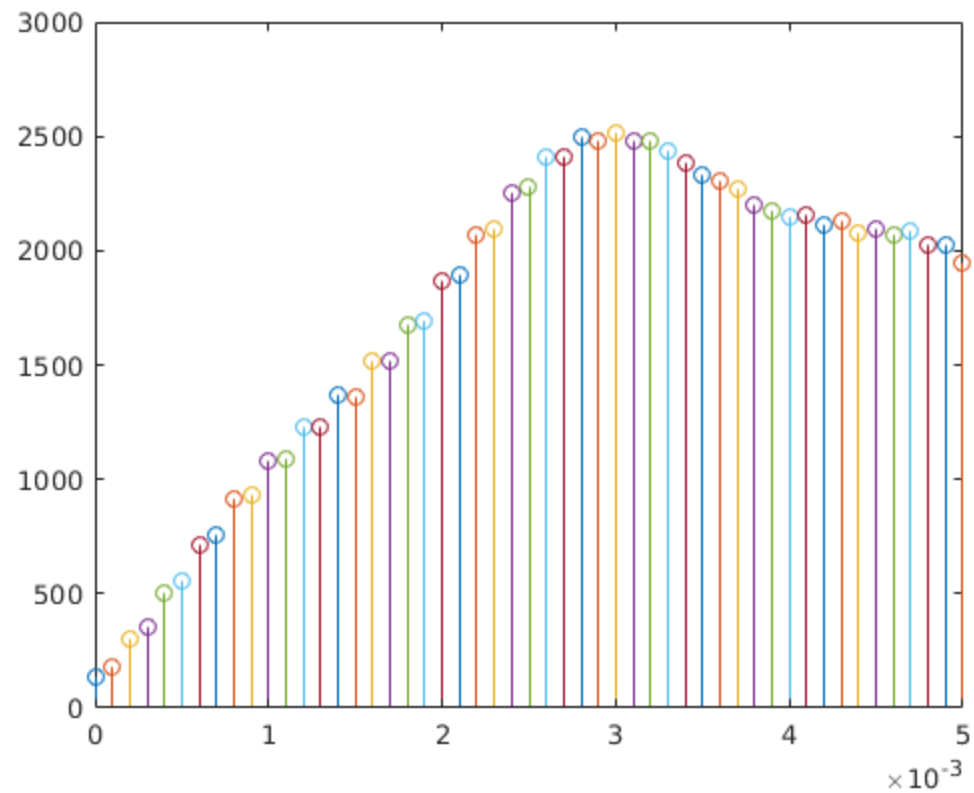
```
Hz =
```

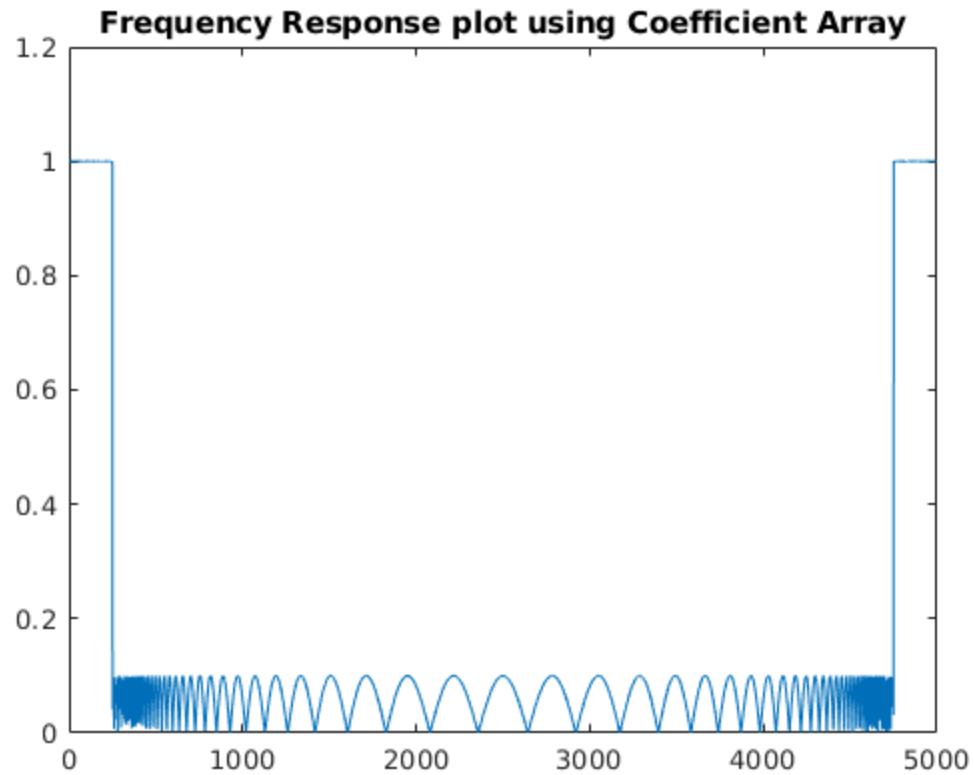
```
function_handle with value:
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@(z)Hz(z).*(B(k,1)*z.^2+B(k,2).*z+B(k,1))./(1*z.^2+A(k,1).*z
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```

```
Omegas =
```

```
2.9844
0.1572
```





$H_z =$

function_handle with value:

```
@(z)Hz(z).*(B(k,1)*z.^2+B(k,2).*z+B(k,1))./(1*z.^2+A(k,1).*z+A(k,2))
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Hz =

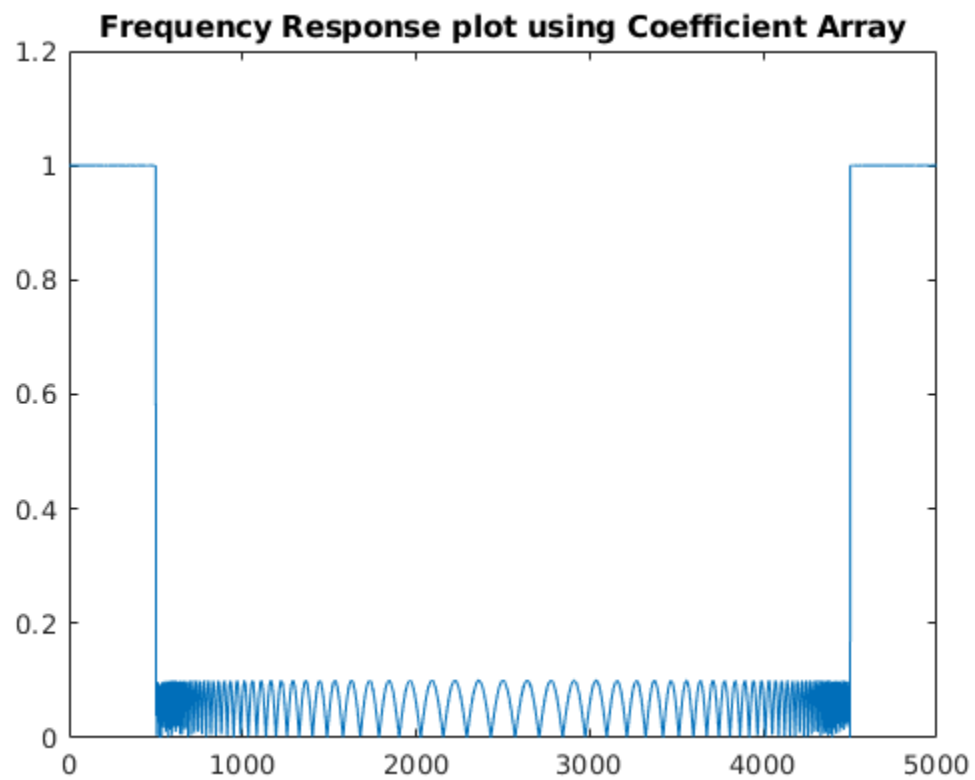
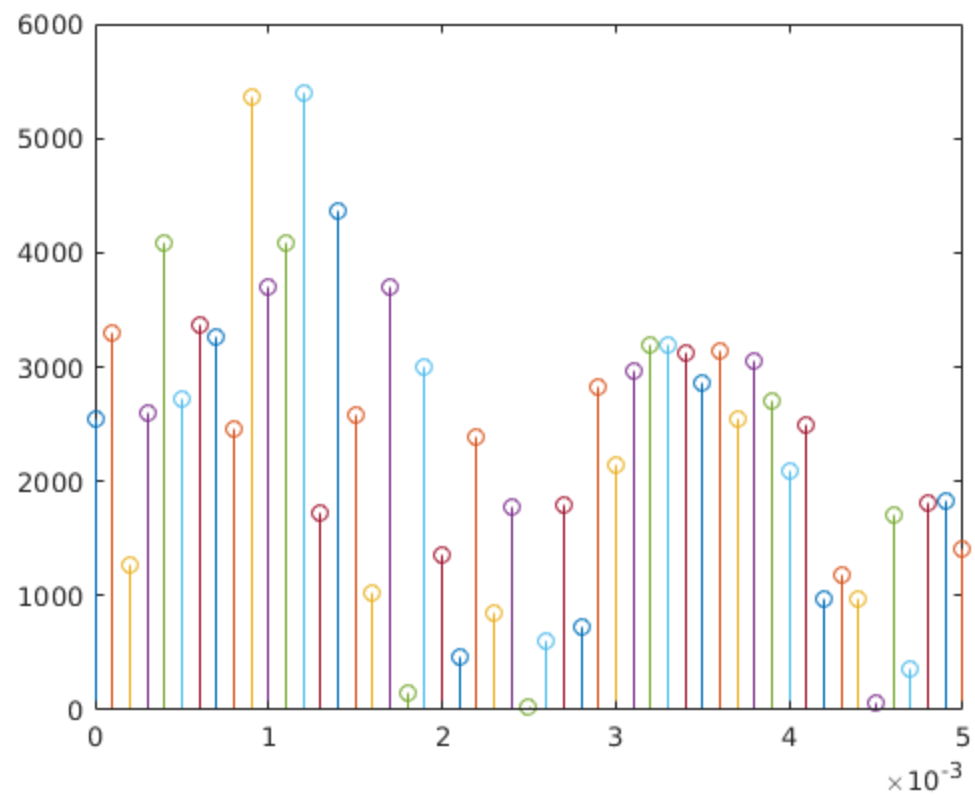
function_handle with value:

@(z)Hz(z).*(B(k,1)*z.^2+B(k,2).*z+B(k,1))./(1*z.^2+A(k,1).*z
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Omegas =

2.8273
0.3143

```



Hz =

function_handle with value:

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```

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@(z)Hz(z).*(B(k,1)*z.^2+B(k,2).*z+B(k,1))./(1*z.^2+A(k,1).*z
+A(k,2))
```

```
Hz =
```

```
function_handle with value:
```

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$H_z =$

function_handle with value:

```
@(z)Hz(z).*(B(k,1)*z.^2+B(k,2).*z+B(k,1))./(1*z.^2+A(k,1).*z+A(k,2))
```

$H_z =$

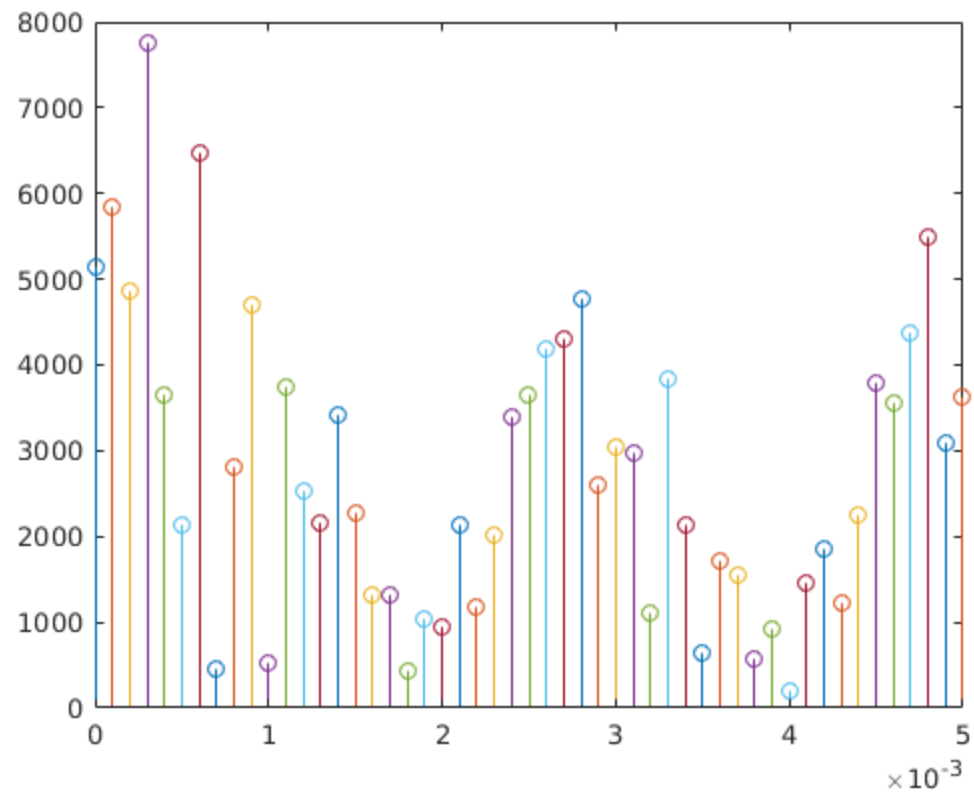
function_handle with value:

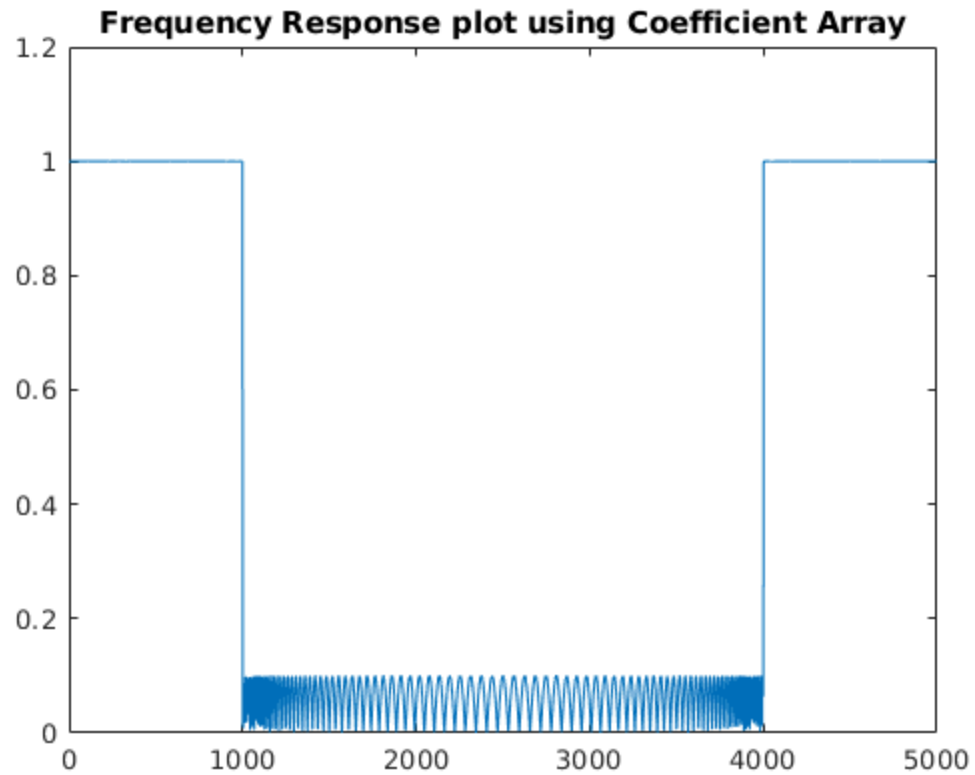
```
@(z)Hz(z).*(B(k,1)*z.^2+B(k,2).*z+B(k,1))./(1*z.^2+A(k,1).*z+A(k,2))
```

$\Omega_{egas} =$

2.5130

0.6286





$H_z =$

function_handle with value:

$$\ @(z)H_z(z).*(B(k,1)*z.^2+B(k,2).*z+B(k,1))./(1*z.^2+A(k,1).*z+A(k,2))$$

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@(z)Hz(z).*(B(k,1)*z.^2+B(k,2).*z+B(k,1))./(1*z.^2+A(k,1).*z+A(k,2))

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Hz =

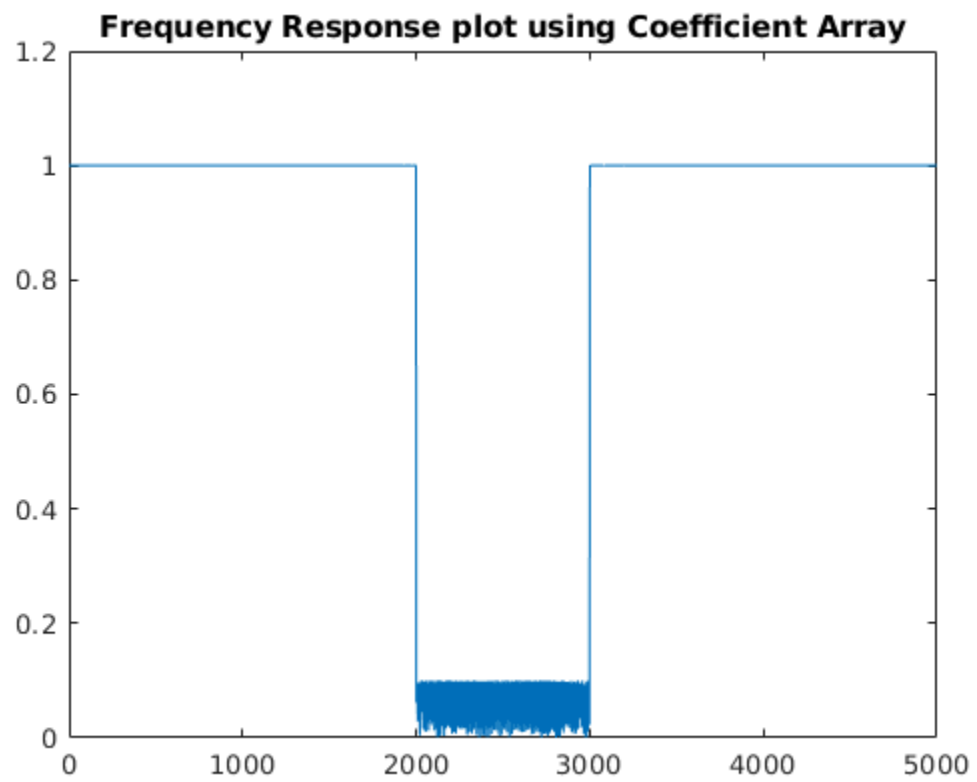
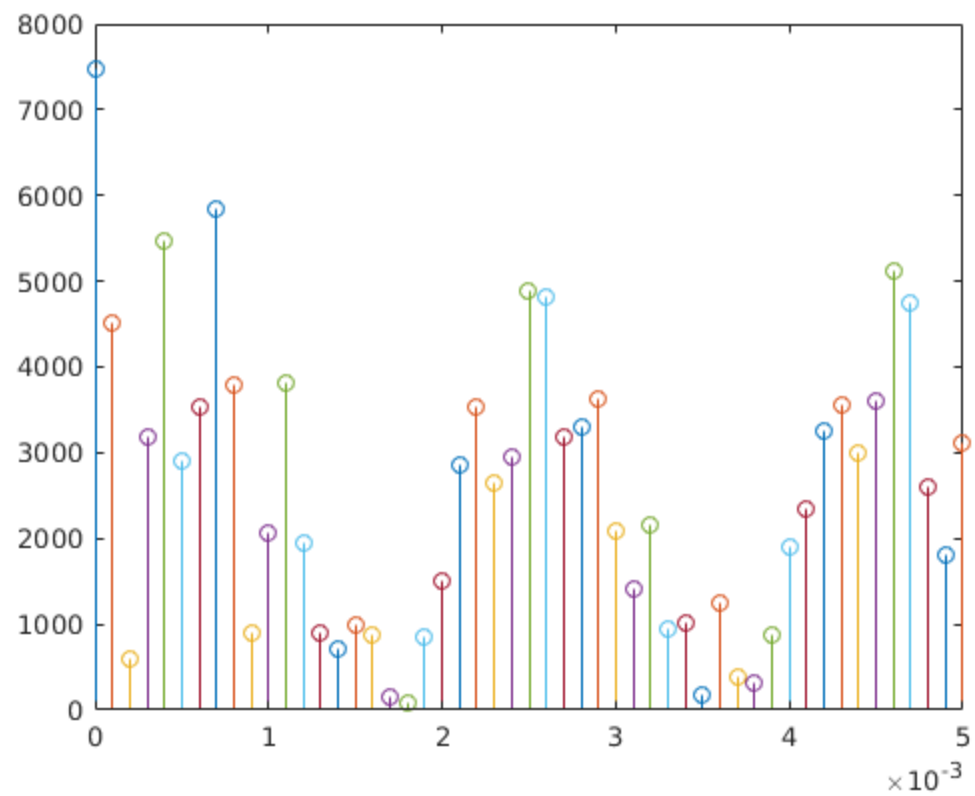
function_handle with value:

@(z)Hz(z).*(B(k,1)*z.^2+B(k,2).*z+B(k,1))./(1*z.^2+A(k,1).*z
+A(k,2))

Omegas =

1.8848
1.2568

```



end

```
save('arrayA.mat','matArrayA');  
save('arrayB.mat','matArrayB');
```

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