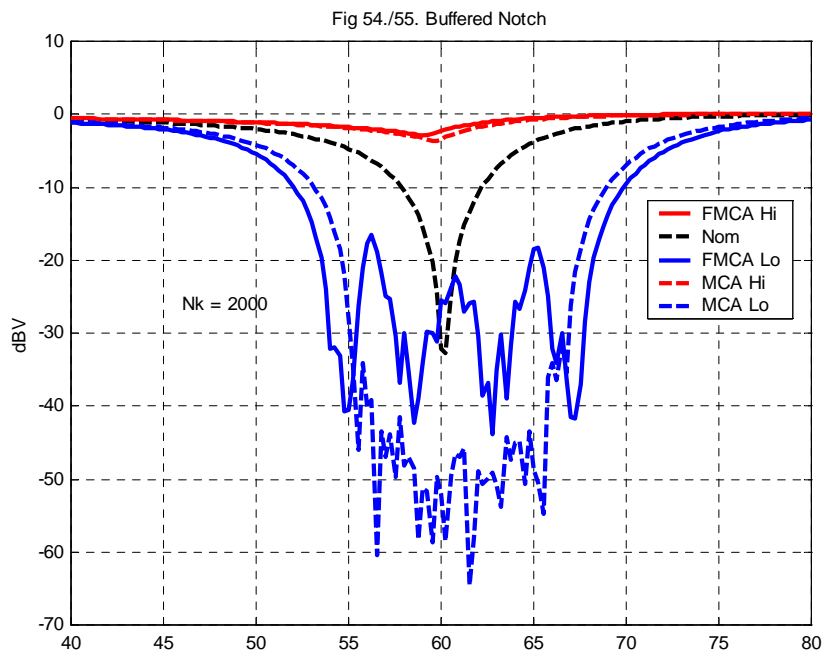


11/13/2006

Buffered 60-Hz Notch Filter (p.109 of TAECUM)



```
% FMCA and MCA of buffered
% 60Hz notch filter
% File: c:\M_files\bookupdate\buff60.m
% updated 11/10/06
clc;clear;tic;
K=1e3;n=1e-9;
R1=19*K;R2=57.6*K;R3=464*K;R4=200;
R5=4.8*K;C1=46*n;C2=C1;C3=C1;
Nom=[R1 R2 R3 R4 R5 C1 C2 C3];
Nc=size(Nom,2);
BF=40;LF=80;NP=161;
F=linspace(BF,LF,NP);
Tr=0.01;Tc=0.1;
T=[-Tr -Tr -Tr -Tr -Tr -Tc -Tc -Tc;
    Tr Tr Tr Tr Tr Tc Tc Tc];
%
% G5
% * * * * * Begin Template * * * * *
% FMCA Setup
%
Nc=size(T,2);Nf=2^Nc;
Tf=zeros(Nf,Nc);
k=1:Nf;RB=dec2bin(k-1);
for k=1:Nf
    for w=1:Nc;
        if RB(k,w)=='0'
            Tf(w,k)=Nom(w)*(1+T(1,w));
        else
            Tf(w,k)=Nom(w)*(1+T(2,w));
        end
    end
end
end
%
% MCA Setup
%
rand('state',sum(100*clock));
```

