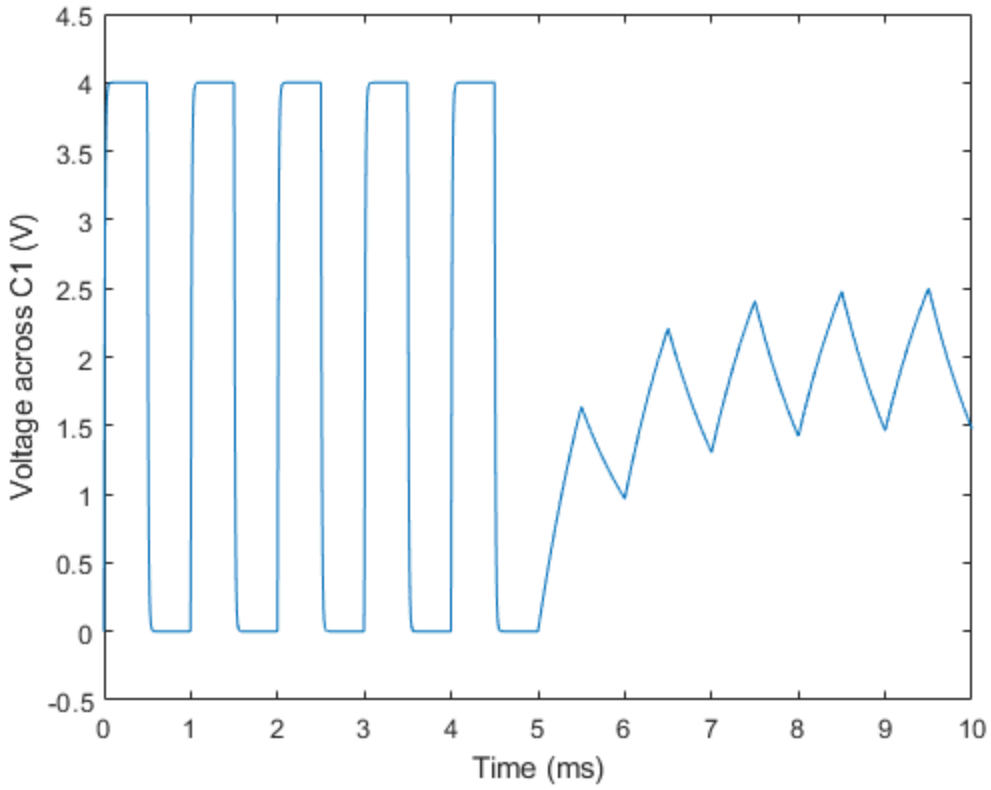
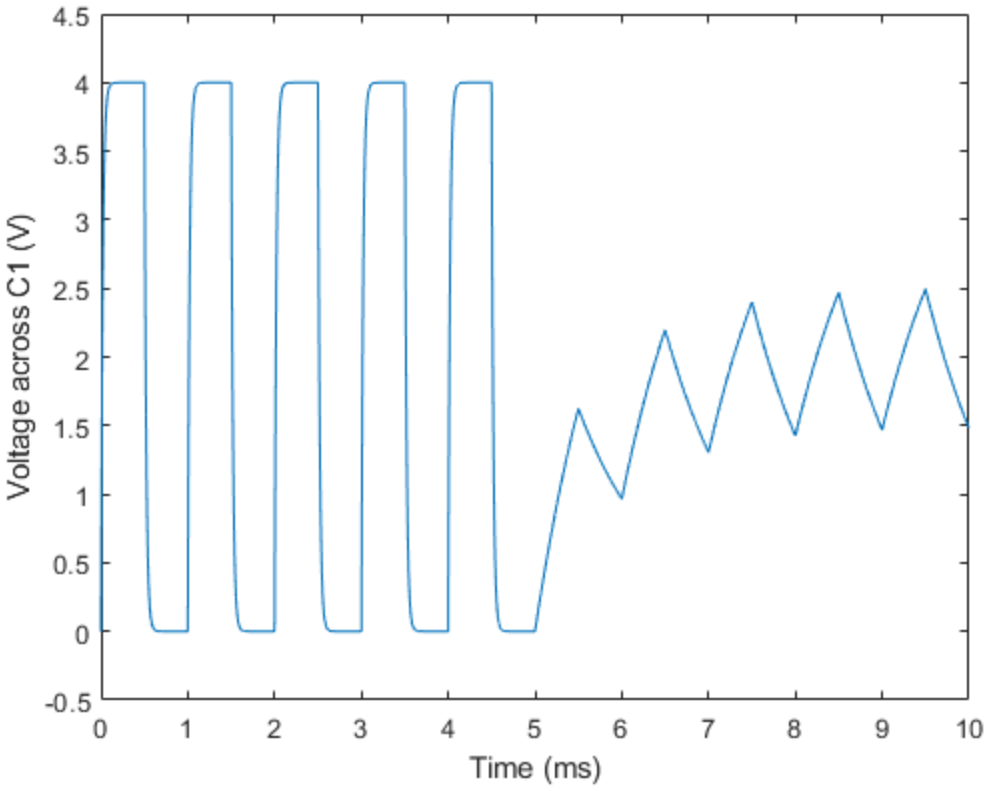
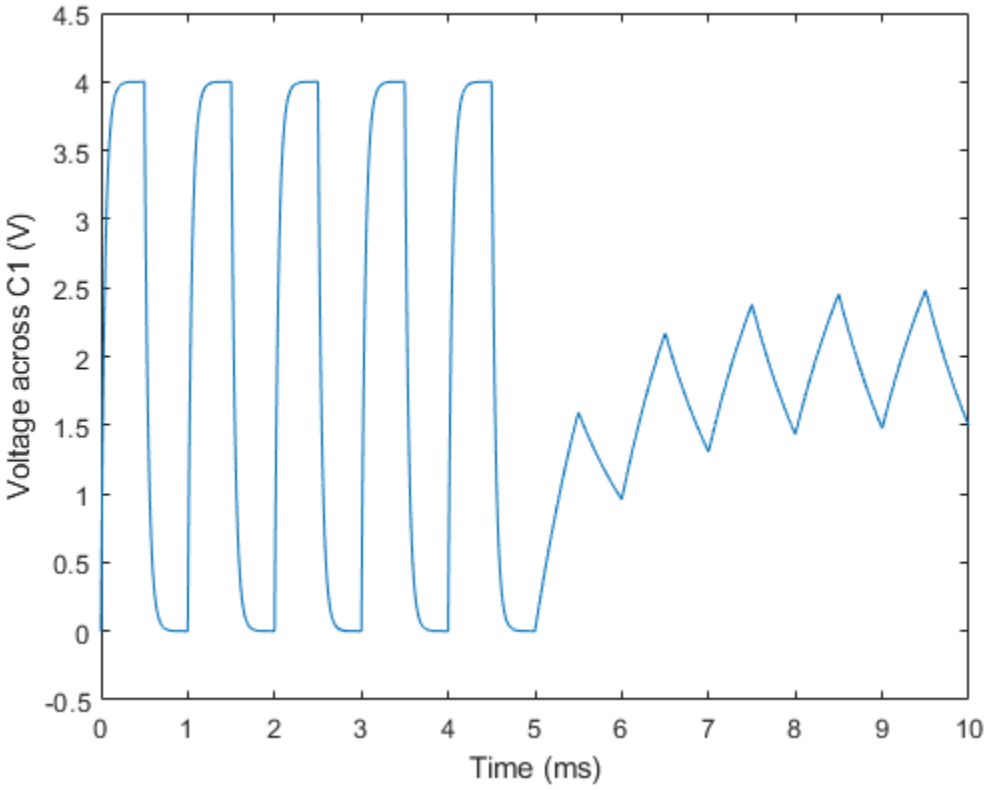
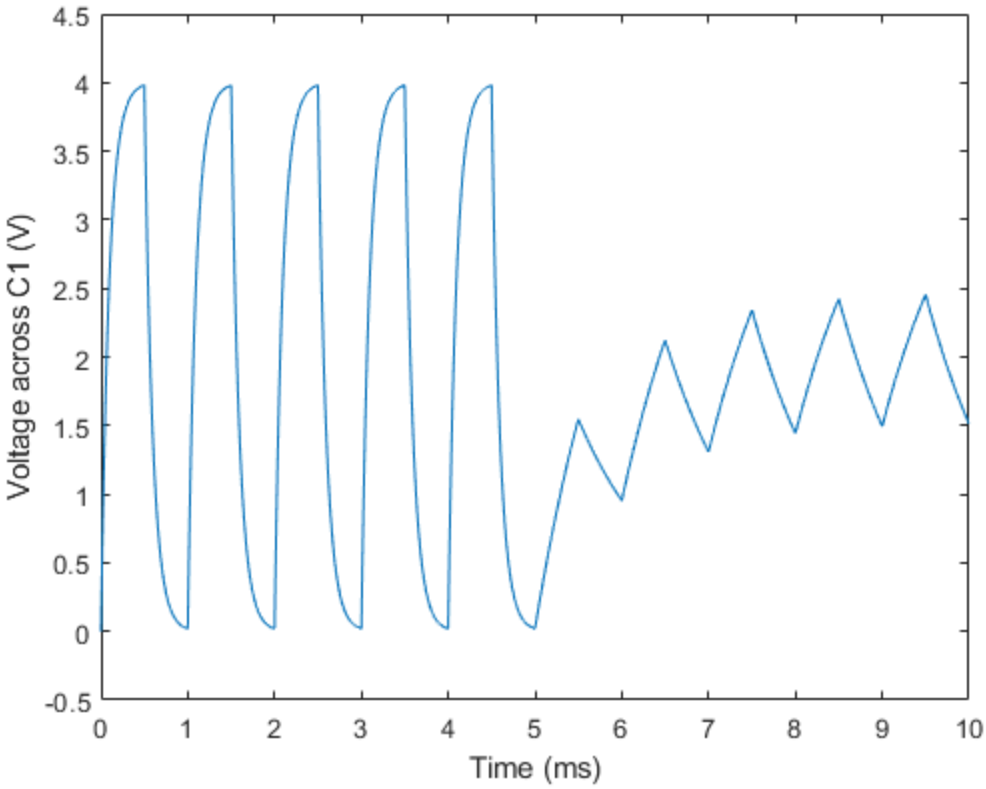
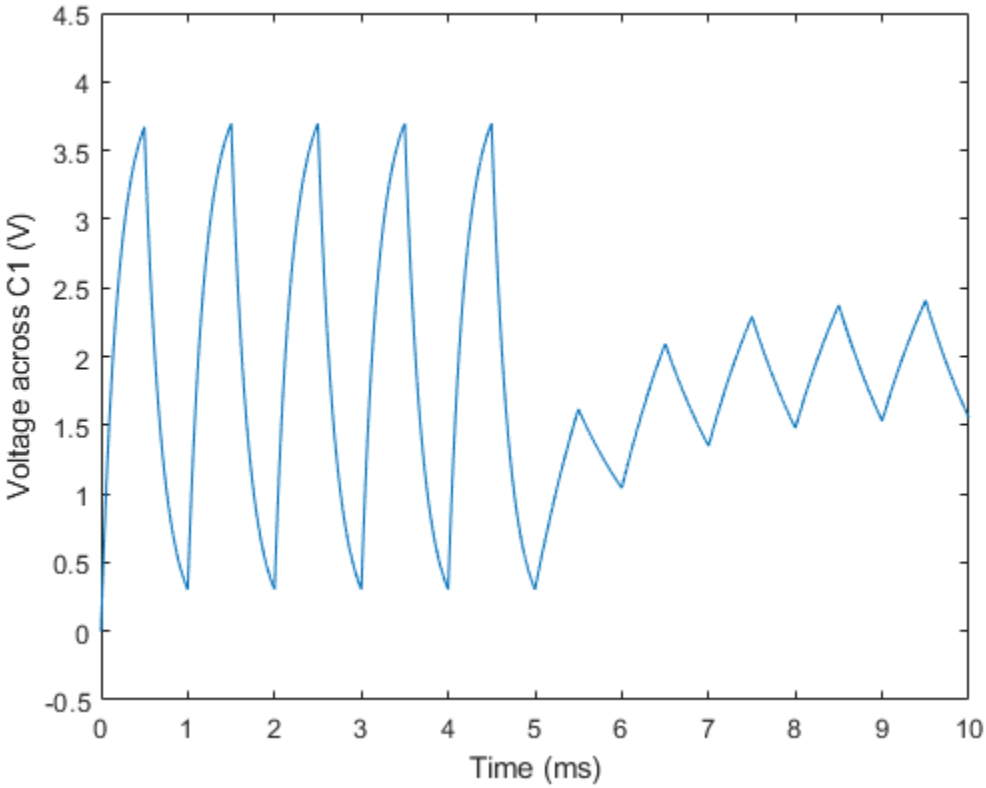
```
%%Testing sim_rccopy response
t = 0:1e-4:10;
x = 2 * square(2*pi*1*t) + 2;
possible_C = [.00047, .001, .0022, .0047, .01, .022]*10^(-6);
for i = 1:6
    data2 = sim_rccopy(x,possible_C(i));
    figure
    plot(t,data2.Vout)
    ylabel('Voltage across C1 (V)')
    xlabel('Time (ms)')
    axis([0,10, -0.5,4.5])
end
```

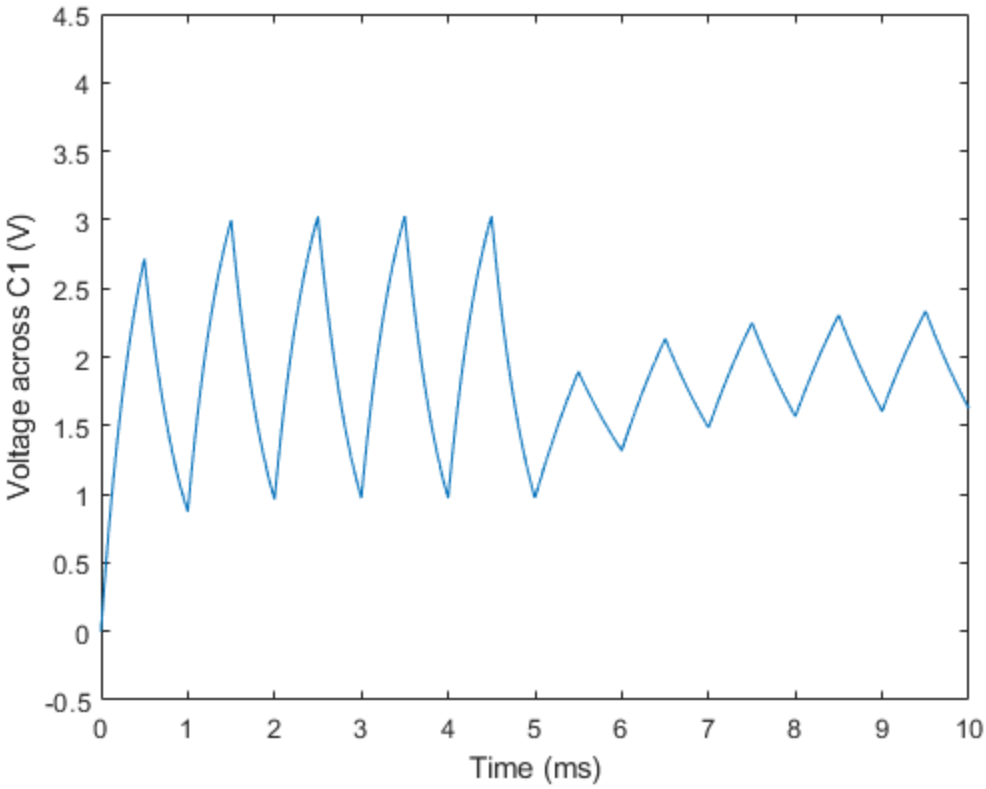



Voltage across C1 (V)
Time (ms)
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
-0.5
0
1
2
3
4
5
6
7
8
9
10


Voltage across C1 (V)
Time (ms)
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
-0.5
0
1
2
3
4
5
6
7
8
9
10


Voltage across C1 (V)
Time (ms)
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
-0.5
0
1
2
3
4
5
6
7
8
9
10


Voltage across C1 (V)
Time (ms)
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
-0.5
0
1
2
3
4
5
6
7
8
9
10



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