



Curso:

Procesamiento de Señales Digitales

Tarea 3:

Filtrado en el tiempo

Integrantes:

Daniel Andrés Rayo Díaz

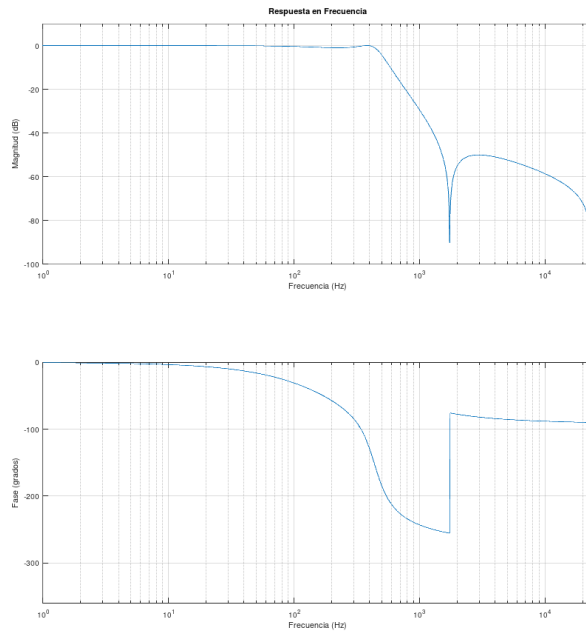
Marcelo Trunque Montero

Año:

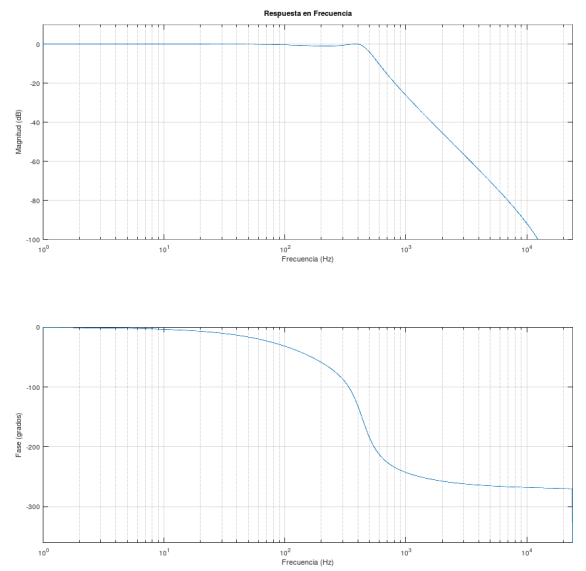
2024 Semestre 2

Filtros paso bajos

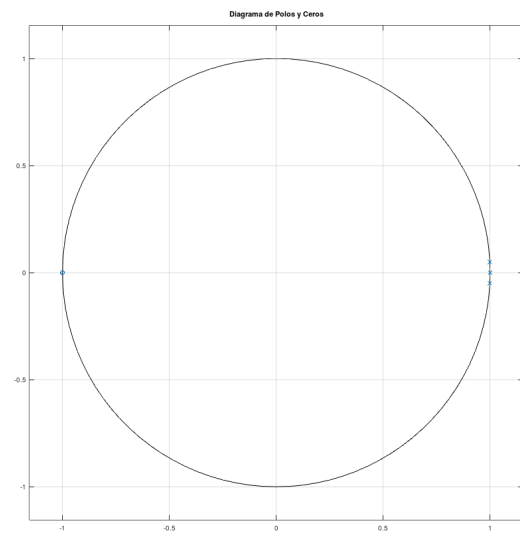
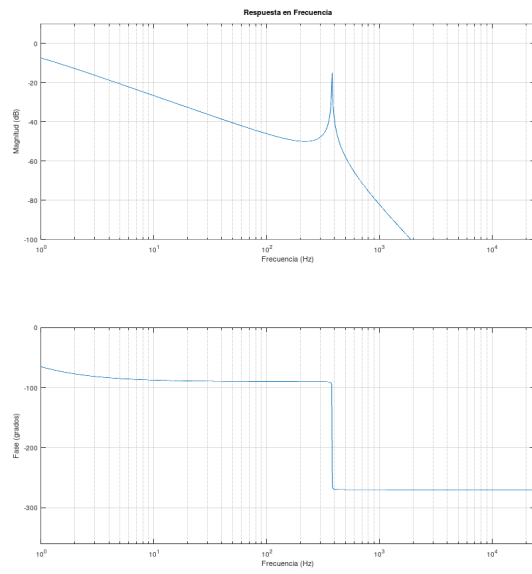
Ellip



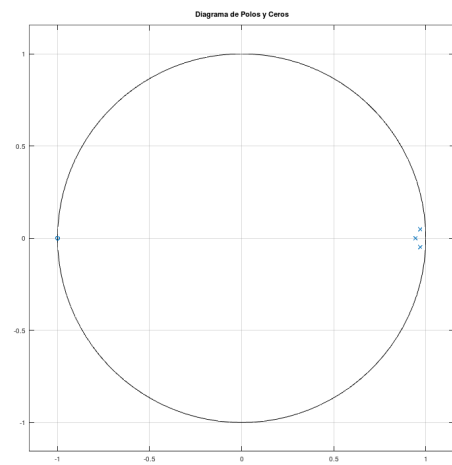
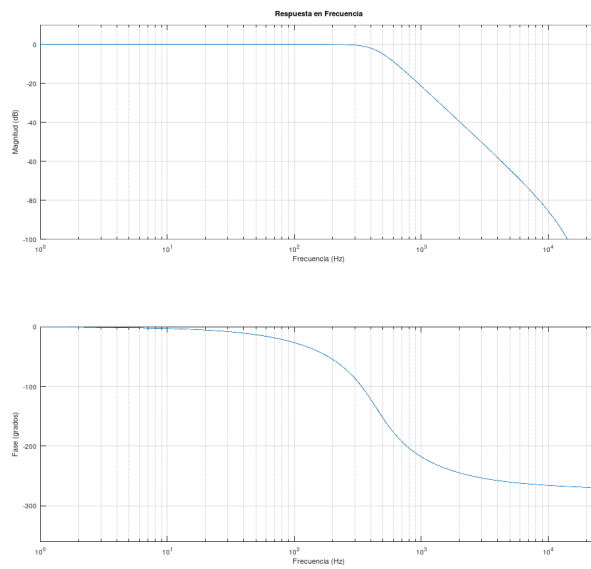
cheby1



cheby2

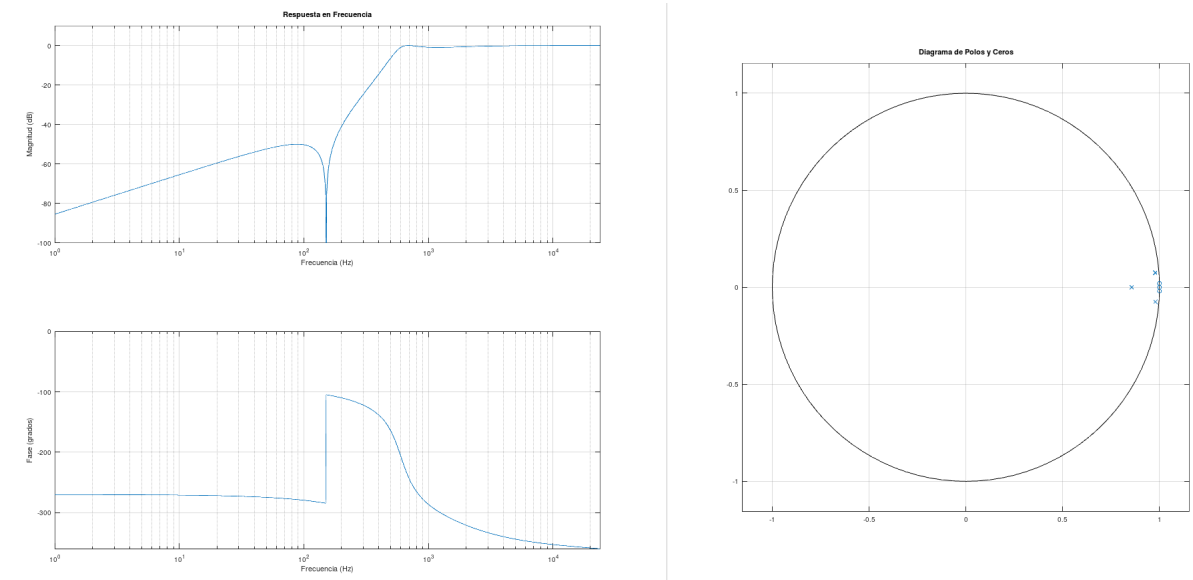


Butter

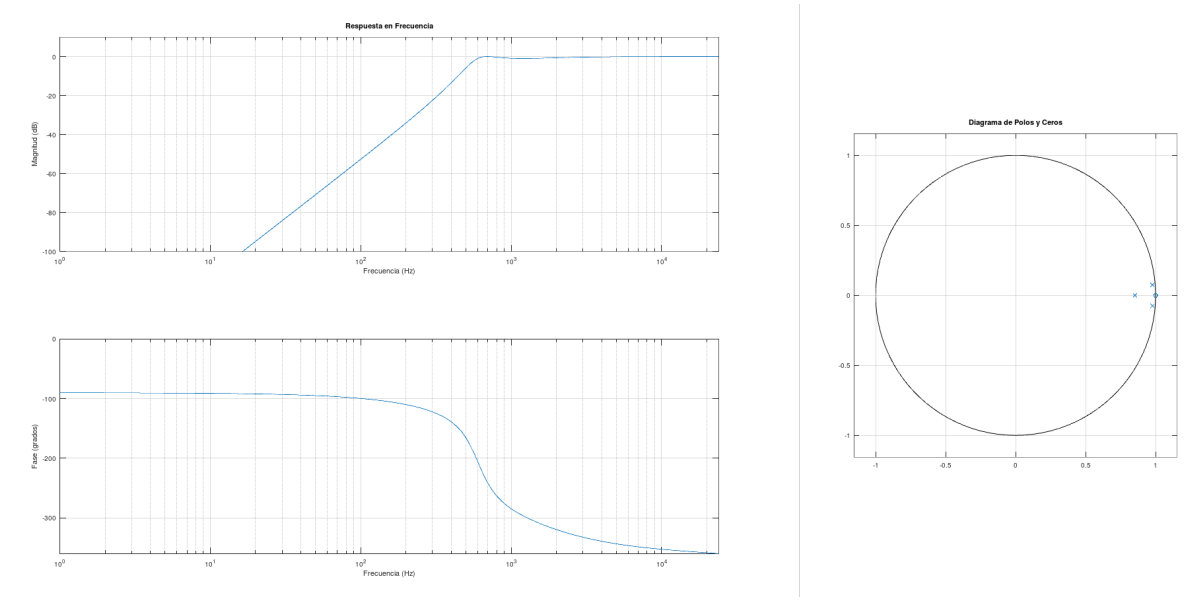


Filtros paso Altas

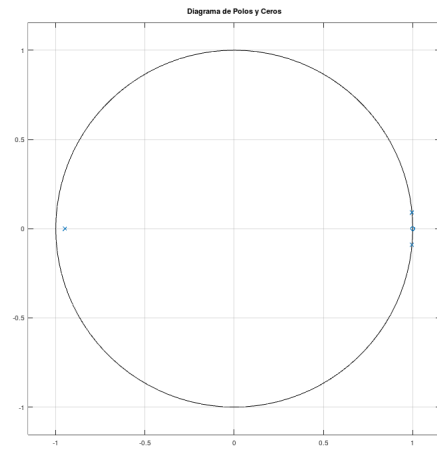
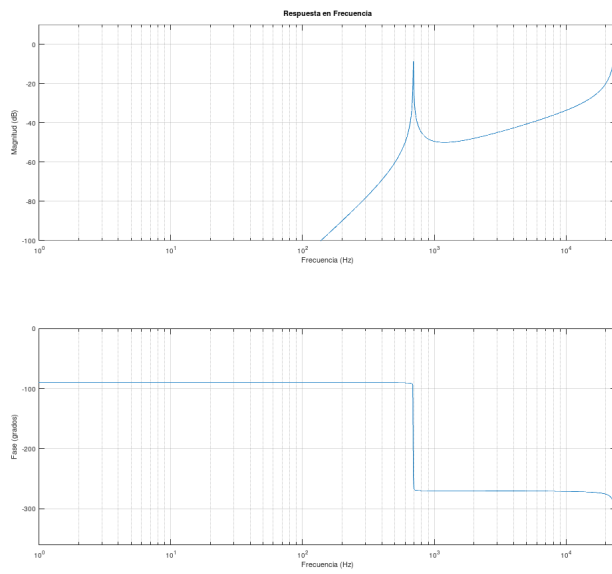
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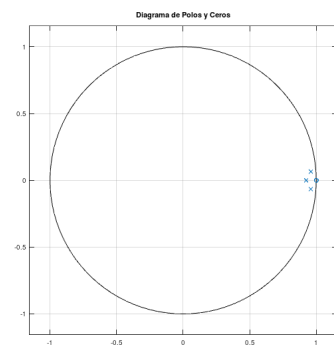
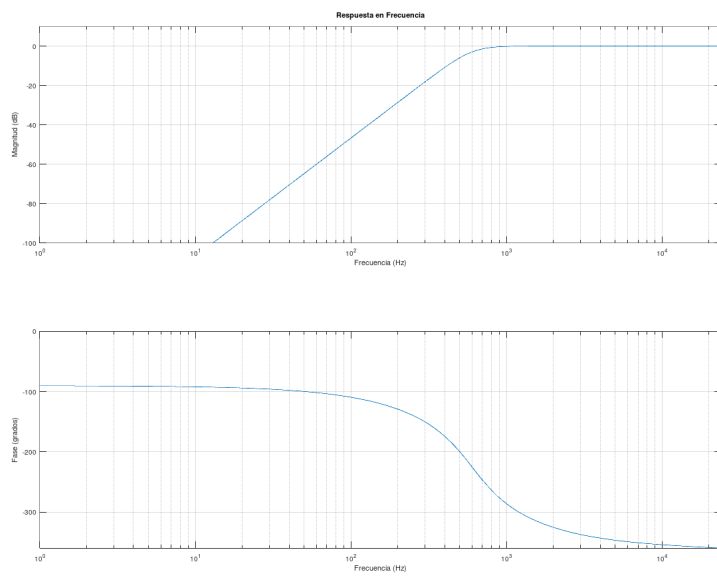
Cheby1



Cheby2

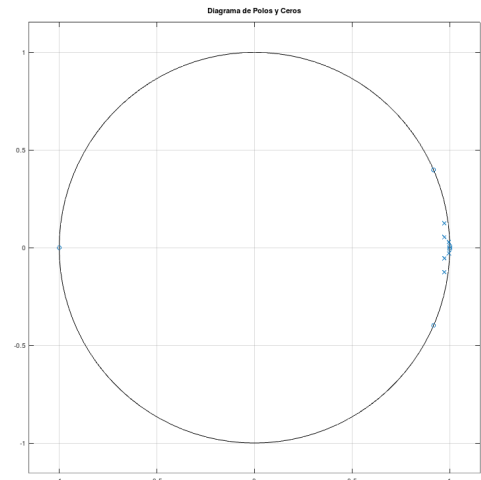
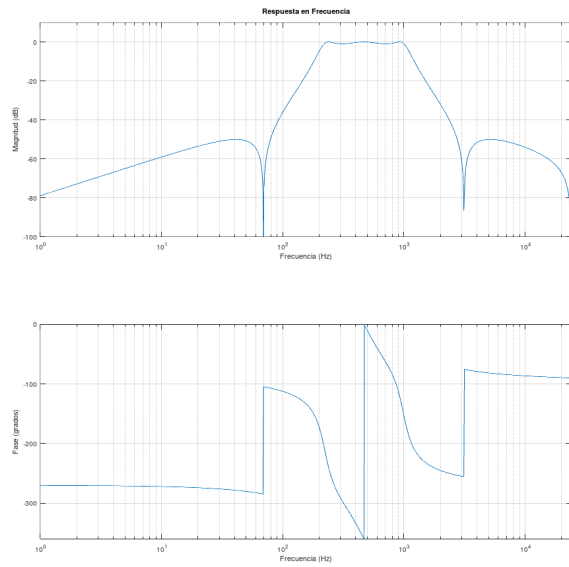


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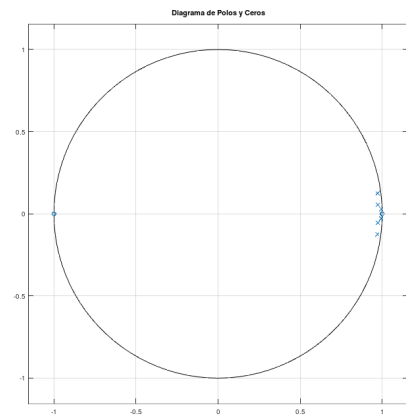
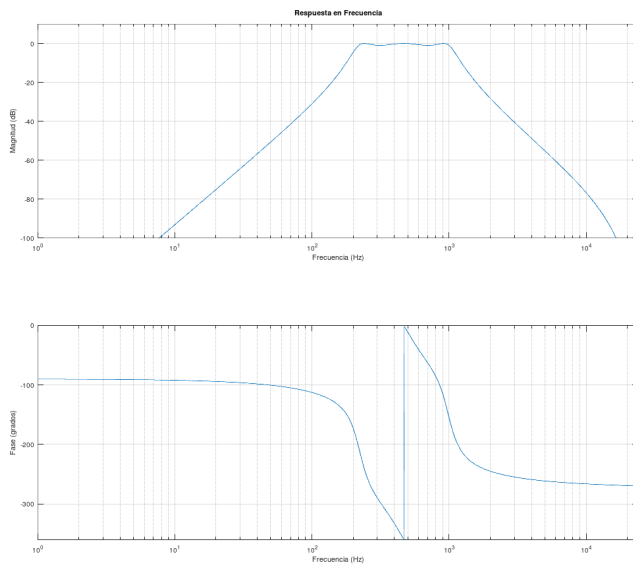


Filtros paso bandas

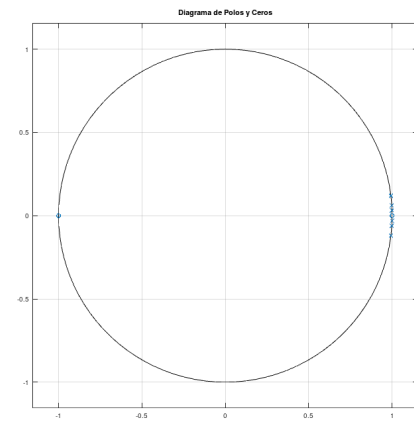
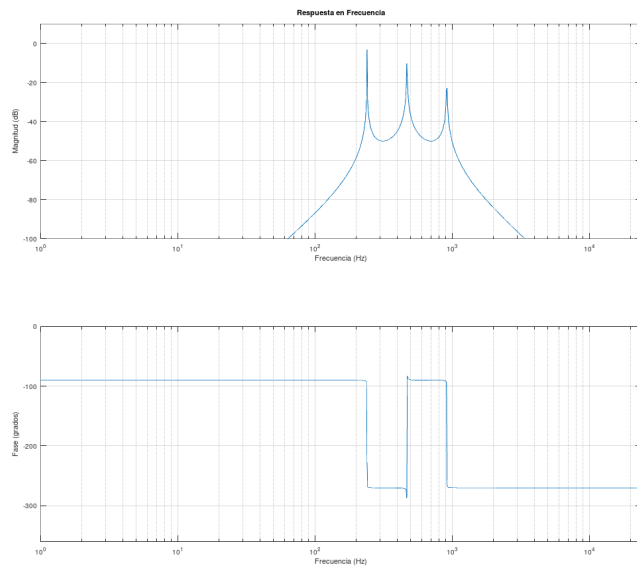
Ellip



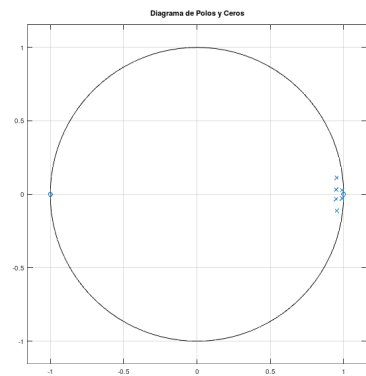
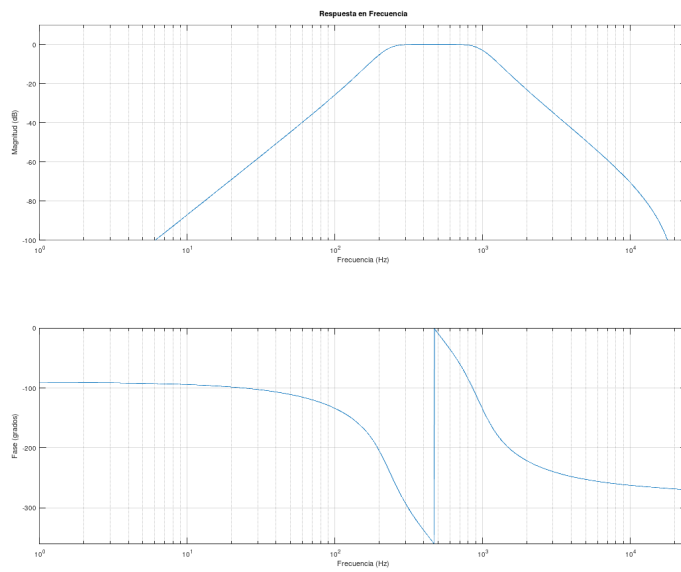
Cheby1



Cheby2

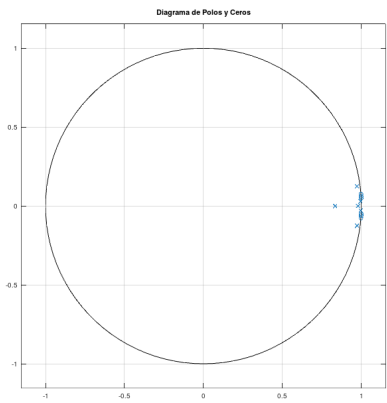
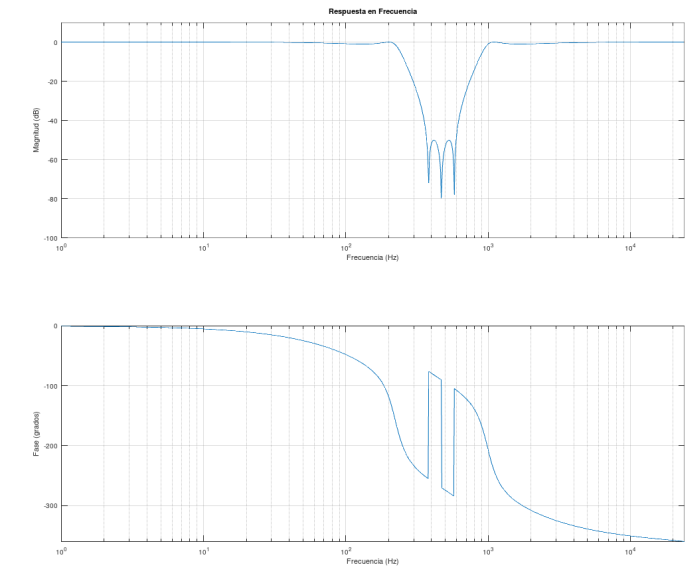


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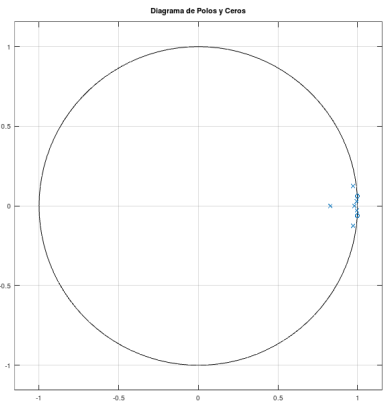
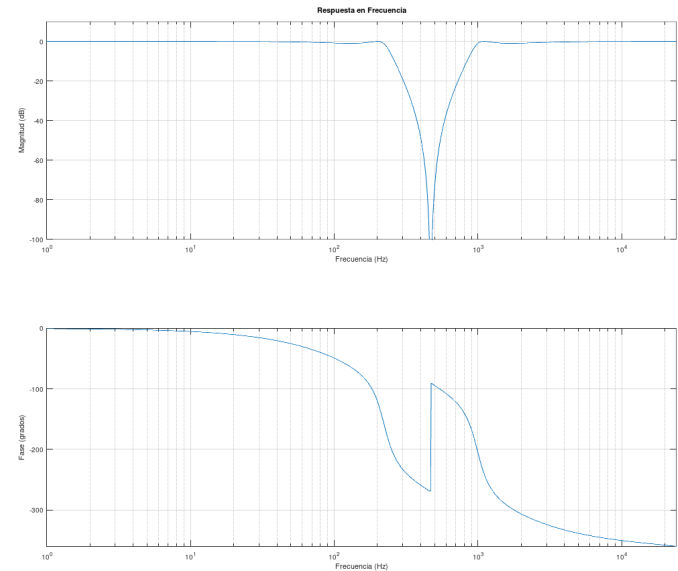


Filtros supresores de banda

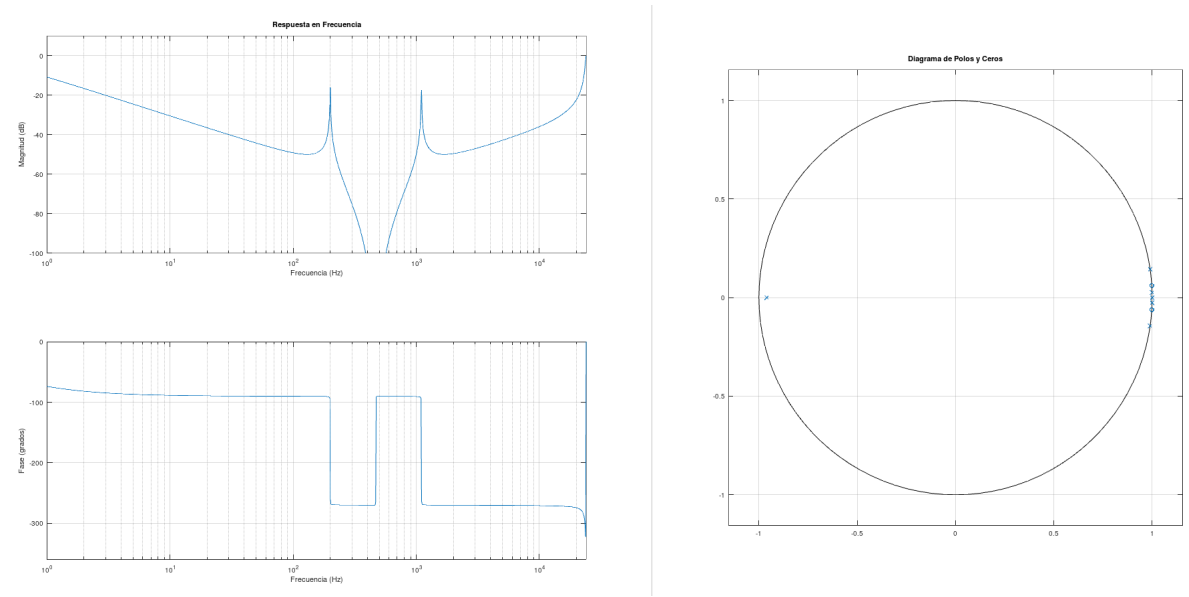
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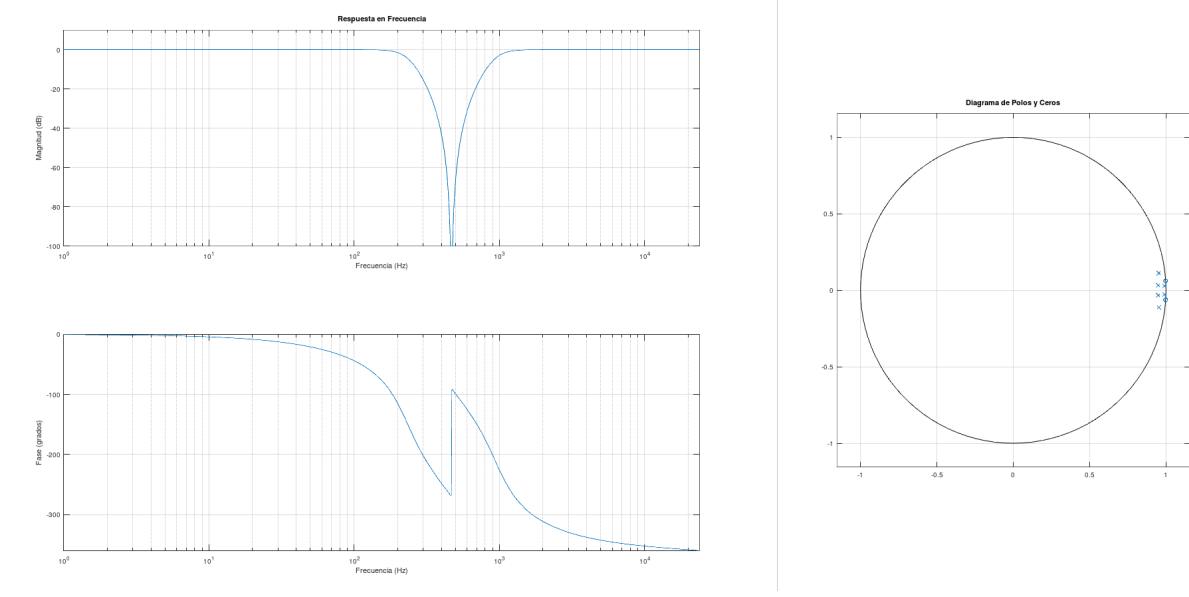
Cheby1



Cheby2



Butter



Benchmark Solución

Benchmark	Time	CPU	Iterations	UserCounters...
BM_Biquad_Process/256	24315 ns	24315 ns	23626	items_per_second=445.627/s
BM_Biquad_Process/512	32416 ns	32416 ns	20037	items_per_second=788.276/s
BM_Biquad_Process/1024	51236 ns	51235 ns	14786	items_per_second=1.35172k/s
BM_Biquad_Process/2048	56476 ns	56476 ns	10967	items_per_second=3.30659k/s
BM_Biquad_Process/4096	76135 ns	76133 ns	8623	items_per_second=6.23918k/s
BM_Biquad_Process/8192	118166 ns	118166 ns	5742	items_per_second=12.0736k/s
BM_Cascade_Process/256	24178 ns	24178 ns	29086	items_per_second=364.032/s
BM_Cascade_Process/512	42346 ns	42345 ns	16554	items_per_second=730.406/s
BM_Cascade_Process/1024	69534 ns	69532 ns	9758	items_per_second=1.50922k/s
BM_Cascade_Process/2048	96804 ns	96805 ns	6876	items_per_second=3.07678k/s
BM_Cascade_Process/4096	159167 ns	159167 ns	4283	items_per_second=6.00838k/s
BM_Cascade_Process/8192	285266 ns	285266 ns	2429	items_per_second=11.8226k/s