

Calculates IIR filter coefficients.

appVersion(4) = "0.99.7921.69"

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N := 1024    ω := dsp_linspace(0, π, N, "periodic")
ord_lpf := 6  ord_hpf := 6  ord_bpf := 12  ord_bsf := 12  rp := 2  rs := 60  f1 := [.3 -100]  f2 := [.7 -100]
filter_eval(ord, ω0, ω1, ftype) := | ba := dsp_iir(rp, rs, ord, ω0, ω1, ftype)
| [ b a ] := [ ba_1  ba_2 ]
| dsp_filter_freq_resp(b, a, ord, ω, "mag|logmag")_1
| ω := π
mag_11 := filter_eval(ord_lpf, .3, 0, "butter|lpf")  mag_12 := filter_eval(ord_lpf, .3, 0, "cheby1|lpf")
mag_13 := filter_eval(ord_lpf, .3, 0, "cheby2|lpf")  mag_14 := filter_eval(ord_lpf, .3, 0, "ellip|lpf")
mag_21 := filter_eval(ord_hpf, .3, 0, "butter|hpf")  mag_22 := filter_eval(ord_hpf, .3, 0, "cheby1|hpf")
mag_23 := filter_eval(ord_hpf, .3, 0, "cheby2|hpf")  mag_24 := filter_eval(ord_hpf, .3, 0, "ellip|hpf")
mag_31 := filter_eval(ord_bpf, .3, .7, "butter|bpass") mag_32 := filter_eval(ord_bpf, .3, .7, "cheby1|bpass")
mag_33 := filter_eval(ord_bpf, .3, .7, "cheby2|bpass") mag_34 := filter_eval(ord_bpf, .3, .7, "ellip|bpass")
mag_41 := filter_eval(ord_bsf, .3, .7, "butter|bstop") mag_42 := filter_eval(ord_bsf, .3, .7, "cheby1|bstop")
mag_43 := filter_eval(ord_bsf, .3, .7, "cheby2|bstop") mag_44 := filter_eval(ord_bsf, .3, .7, "ellip|bstop")
    
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