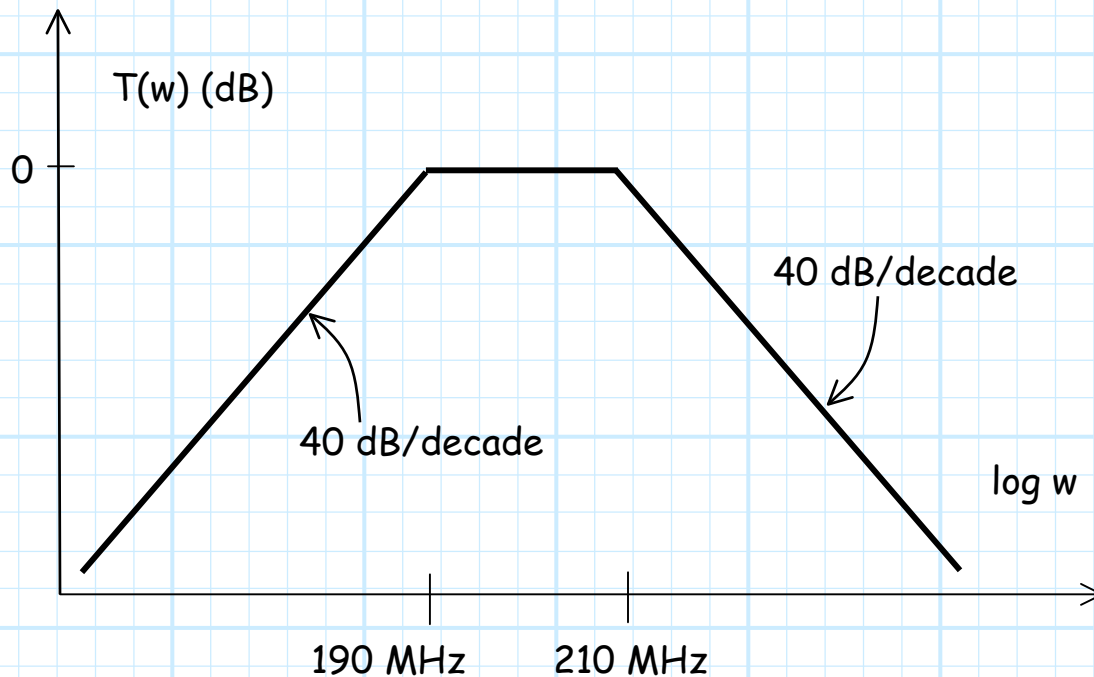


Special Problem II.B-12

You are designing a super-heterodyne receiver to receive RF signals from 190 to 210 MHz. You require 40 dB of image rejection.

You are using a preselector filter that passes signals from 190 to 210 MHz, and has a "roll-off rate" of 40 dB/decade.



Determine a suitable IF for this design, as well as the required LO frequencies.

Give also design rationale and justification (e.g., why did you use low or high side tuning?).